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(note September 10, 2008 as #1 report)

[CLICK HERE FOR THE DPW's REPORT DATED FEBRUARY 5, 2009](#)

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COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

DEAN D. EFSTATHIOU, Acting Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

October 14, 2008

IN REPLY PLEASE
REFER TO FILE: WW-0
A2874-2

TO: Each Supervisor

FROM: Dean D. Efstathiou
Acting Director of Public Works

A handwritten signature in black ink, reading "Dean D. Efstathiou".

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the second monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. Public Works will prepare and send a letter to all 88 cities in the Los Angeles County to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008 (see Attachment A). The ordinance establishes water conservation and waste prevention measures for unincorporated County areas. In addition, the Waterworks Districts' Phased Water Conservation Plan has been updated and is expected to be submitted for your Board's consideration in early November.

Action No. 3 (30 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) are utilizing ISD's Enterprise Energy Management Information System to track the effectiveness of water conservation efforts at most County facilities. The Enterprise Energy Management Information System will facilitate reporting using water bill information from all County departments. An initial report on water savings results for calendar year 2008 is expected to be available in early 2009. Following the initial report, updated reports will be provided to your Board on a regular basis.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, water conservation technologies and incentive programs were discussed. Representatives of the City of Los Angeles Department of Water and Power and the Metropolitan Water District gave presentations on their water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for use of water-saving devices. Facility managers from DPR, Beaches and Harbors, ISD, Community Development Commission, and the Sheriff and Fire Departments attended the meeting and propose to actively purchase and install water saving devices. ISD will work with these departments to compile a list of water conservation projects and estimate the water savings.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008.

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive,

sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008 (see Attachment B).

Action No. 6 (30 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee established criteria for determining the County facilities to be included in three phases of conversion to recycled water. These criteria have been applied to DPR facilities and will be applied to all remaining County facilities. Cost estimates for the initial phase have been prepared and work continues on preparing cost estimates for the remaining County phases. The Committee is preparing the report to be submitted to your Board describing the plan.

Action No. 7 (25 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (100 percent complete)

Instruct the Acting Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly.

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300.

DWP:ea

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Attach.

cc: Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning

ATTACHMENT A

ANALYSIS

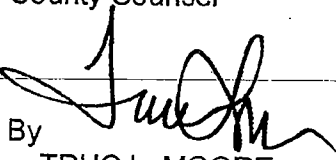
This ordinance amends Title 11 – Health and Safety of the Los Angeles County Code, relating to Water and Sewers, to readopt Part 4 of Chapter 11.38 – Water Conservation Requirements for the Unincorporated Los Angeles County Area.

Pursuant to Section 2 of Ordinance No. 91-0046U, Part 4 of Chapter 11.38 – Water Conservation Requirements for the Unincorporated Los Angeles County Area, terminated on January 1, 1993. This ordinance readopts the same provisions, which were previously set forth in Part 4, except that this ordinance does not have a sunset date, revises the fine amounts, and sets forth a review mechanism.

This ordinance is an urgency measure and requires a four-fifths vote by the Board of Supervisors for adoption.

RAYMOND G. FORTNER, JR.
County Counsel

By


TRUC L. MOORE
Deputy County Counsel
Public Works Division

TLM:ia

08/13/08 (Requested)

09/17/08 (Revised)

ORDINANCE NO. _____

An urgency ordinance amending Title 11 – Health and Safety of the Los Angeles County Code, relating to water conservation requirements for the Unincorporated Los Angeles County Area.

The Board of Supervisors of the County of Los Angeles ordains as follows:

SECTION 1. Chapter 11.38, Part 4, is hereby readopted as amended to read as follows:

**Part 4. Water Conservation Requirements for the Unincorporated
Los Angeles County Area**

11.38.620 Hose watering prohibition.

No person shall hose water or wash down any sidewalks, walkways, driveways, parking areas or other paved surfaces, except as is required for the benefit of public health and safety. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for the first infraction and \$500.00 each for each subsequent infraction violation.

11.38.630 Watering of lawns and landscaping.

- A. No person shall water or cause to be watered any lawn or landscaping between the hours of 10:00 a.m. and 5:00 p.m.
- B. No person shall water or cause to be watered any lawn or landscaping more than once a day.

C. No person shall water or cause to be watered any lawn or landscaping to such an extent that runoff into adjoining streets, parking lots or alleys occurs due to incorrectly directed or maintained sprinklers or excessive watering.

D. It shall be the duty of all persons to inspect all hoses, faucets and sprinkling systems for leaks, and to cause all leaks to be repaired as soon as is reasonably practicable.

E. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for the first infraction and \$500.00 each for each subsequent infractions violation.

11.38.640 Indoor plumbing and fixtures.

A. It shall be the duty of all persons to inspect all accessible indoor plumbing and faucets for leaks, and to cause all leaks to be repaired as soon as is reasonably practicable.

B. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$500100.00 for each subsequent violation.

11.38.650 Washing vehicles.

No motor vehicle, boat, trailer, or other type of mobile equipment may be washed, except at a commercial carwash or with reclaimed water, unless such vehicle is washed by using a hand-held bucket or a water-hose equipped with an automatic shutoff nozzle. No person shall leave a water hose running while washing a vehicle or at any other time. Willful violation hereof shall be subject to a written warning for the

first violation, and shall be an infraction punishable by a fine of \$100.00 for the first
infraction and \$500.00 each for each subsequent infractions violation.

11.38.660 Public eating places.

No restaurant, hotel, cafeteria, café, or other public place where food is sold or served shall serve drinking water to any customer unless specifically requested to do so by such customer. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for the first
infraction and \$500.00 each for each subsequent infractions violation.

11.38.670 Decorative fountains.

No person shall use water to clean, fill, or maintain levels in decorative fountains, ponds, lakes, or other similar aesthetic structures unless such water flows through a recycling system. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for the first
infraction and \$500.00 each for each subsequent infractions violation.

11.38.680 Procedural requirements.

The Director of Public Works, with input and concurrence from the Director of Public Health, shall periodically review the provisions of this Part and recommend necessary updates to the Board of Supervisors. The review of these provisions and preparation of resulting recommendations, if any, shall be performed, at a minimum, every two years following the first review, which shall to be completed by December 31, 2010.

SECTION 2. Due to the severity of the drought in the State of California, there is an immediate need to prohibit the wasting of water in the Los Angeles County unincorporated area to better utilize the available water supplies. This ordinance is urgently needed for the preservation of the public health, safety, and general welfare, and shall take effect immediately.

[1138WATERTMCC]

ATTACHMENT B



SACHI A. HAMAI
EXECUTIVE OFFICER

COUNTY OF LOS ANGELES BOARD OF SUPERVISORS

KENNETH HAHN HALL OF ADMINISTRATION
500 WEST TEMPLE STREET, ROOM 383
LOS ANGELES, CALIFORNIA 90012
(213) 974-1411 • FAX (213) 620-0636

MEMBERS OF THE BOARD

GLORIA MOLINA

YVONNE B. BURKE

ZEV YAROSLAVSKY

DON KNABE

MICHAEL D. ANTONOVICH

September 12, 2008

The Honorable Arnold Schwarzenegger
Governor, State of California
State Capitol Building
Sacramento, CA 95814

Dear Governor Schwarzenegger:


On behalf of the ten million residents living in Los Angeles County, we want to thank you for your leadership in developing a durable vision for sustainable management of the Sacramento-San Joaquin Bay Delta (Delta). We support the 12 recommendations contained in the *Delta Vision* report, which provides a comprehensive, sustainable management plan for the Delta, including the need for conveyance, expanded storage, ecosystem restoration, and conservation.


Los Angeles County residents rely on approximately 780,000 acre-feet of annual water deliveries from the Delta during normal years, supplying more than one-third of the County's overall water demand. The implementation of the *Delta Vision* recommendations will protect the County's residents from the potentially devastating impacts of events such as the Delta's Lower Jones Tract levee failure, a New Orleans Katrina-type flooding disaster, and the two in three chance of a 6.7 or greater magnitude earthquake in or near the Delta in the next 30 years.


The Honorable Arnold Schwarzenegger
September 12, 2008
Page 2

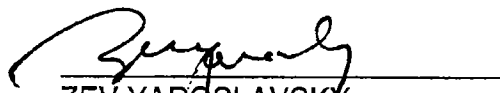
We look forward to the planned completion of the Blue Ribbon Task Force's strategic *Delta Vision* implementation plan in October 2008 and the prompt introduction of a legislative proposal to carry the *Vision* forward to reality.


Sincerely,


YVONNE B. BURKE
Chair of the Board
Supervisor, Second District


GLORIA MOLINA
Supervisor, First District


DON KNABE
Supervisor, Fourth District


ZEV YAROSLAVSKY
Supervisor, Third District


MICHAEL D. ANTONOVICH
Supervisor, Fifth District

c: Susan Kennedy, Chief of Staff, Office of the Governor
Cynthia Bryant, Director, Planning and Research Office, Office of the Governor
Michael Genest, Director, California Department of Finance
Lester A. Snow, California Department of Water Resources



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MICHAEL D. ANTONOVICH

September 12, 2008

The Honorable Karen Bass
Speaker, California State Assembly
State Capitol, Room 219
Sacramento, CA 95814

Dear Madam Speaker:

On behalf of the ten million residents living in Los Angeles County, we urge your support for the 12 recommendations contained in the *Delta Vision* report, which provides a comprehensive, sustainable management plan for the Delta, including the need for conveyance, expanded storage, ecosystem restoration, and conservation.


Los Angeles County residents rely on approximately 780,000 acre-feet of annual water deliveries from the Delta during normal years, supplying more than one-third of the County's overall water demand. The implementation of the *Delta Vision* recommendations will protect the County's residents from the potentially devastating impacts of events such as the Delta's Lower Jones Tract levee failure, a New Orleans Katrina-type flooding disaster, and the two in three chance of a 6.7 or greater magnitude earthquake in or near the Delta in the next 30 years.

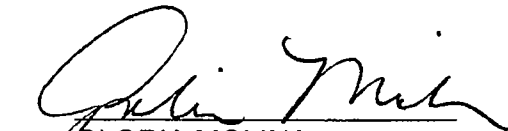
The Honorable Karen Bass
September 12, 2008
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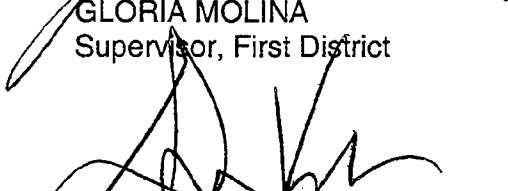
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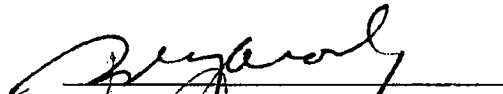
We appreciate your consideration of these recommendations.

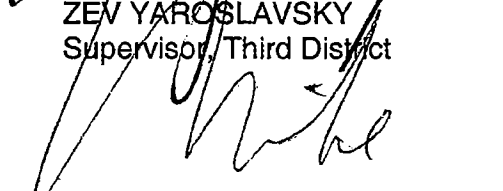
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MICHAEL D. ANTONOVICH
Supervisor, Fifth District

c: Susan Kennedy, Chief of Staff, Office of the Governor
Cynthia Bryant, Director, Planning and Research Office, Office of the Governor
Michael Genest, Director, California Department of Finance
Lester A. Snow, California Department of Water Resources



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DON KNABE

MICHAEL D. ANTONOVICH

September 12, 2008

The Honorable Michael N. Villines
Assembly Minority Floor Leader
State Capitol, Room 3104
Sacramento, CA 95814

Dear Assembly Member Villines:

On behalf of the ten million residents living in Los Angeles County, we urge your support for the 12 recommendations contained in the *Delta Vision* report, which provides a comprehensive, sustainable management plan for the Delta, including the need for conveyance, expanded storage, ecosystem restoration, and conservation.


Los Angeles County residents rely on approximately 780,000 acre-feet of annual water deliveries from the Delta during normal years, supplying more than one-third of the County's overall water demand. The implementation of the *Delta Vision* recommendations will protect the County's residents from the potentially devastating impacts of events such as the Delta's Lower Jones Tract levee failure, a New Orleans Katrina-type flooding disaster, and the two in three chance of a 6.7 or greater magnitude earthquake in or near the Delta in the next 30 years.

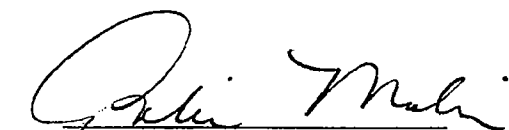
The Honorable Michael N. Villines
September 12, 2008
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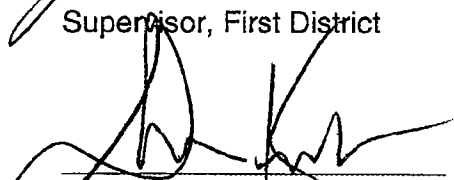
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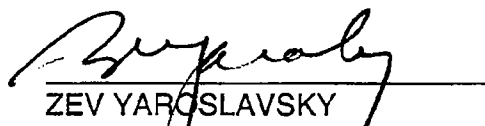
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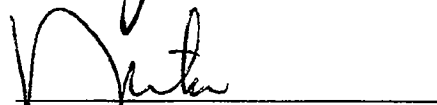
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MICHAEL D. ANTONOVICH
Supervisor, Fifth District

- c: Susan Kennedy, Chief of Staff, Office of the Governor
Cynthia Bryant, Director, Planning and Research Office, Office of the Governor
Michael Genest, Director, California Department of Finance
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MICHAEL D. ANTONOVICH

September 12, 2008

The Honorable Dave Cogdill
Senate Minority Floor Leader
State Capitol, Room 305
Sacramento, CA 95814

Dear Senator Cogdill:

On behalf of the ten million residents living in Los Angeles County, we urge your support for the 12 recommendations contained in the *Delta Vision* report, which provides a comprehensive, sustainable management plan for the Delta, including the need for conveyance, expanded storage, ecosystem restoration, and conservation.


Los Angeles County residents rely on approximately 780,000 acre-feet of annual water deliveries from the Delta during normal years, supplying more than one-third of the County's overall water demand. The implementation of the *Delta Vision* recommendations will protect the County's residents from the potentially devastating impacts of events such as the Delta's Lower Jones Tract levee failure, a New Orleans Katrina-type flooding disaster, and the two in three chance of a 6.7 or greater magnitude earthquake in or near the Delta in the next 30 years.

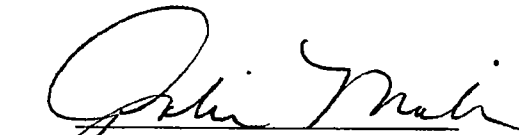
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September 12, 2008
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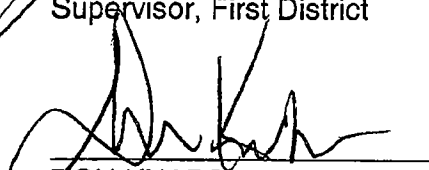
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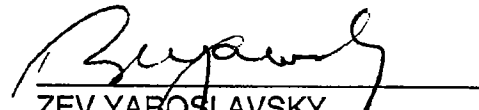
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MICHAEL D. ANTONOVICH

September 12, 2008

The Honorable Don Perata
President pro Tempore California State Senate
State Capitol, Room 205
Sacramento, CA 95814

Dear Senator Perata:

On behalf of the ten million residents living in Los Angeles County, we urge your support for the 12 recommendations contained in the *Delta Vision* report, which provides a comprehensive, sustainable management plan for the Delta, including the need for conveyance, expanded storage, ecosystem restoration, and conservation.


Los Angeles County residents rely on approximately 780,000 acre-feet of annual water deliveries from the Delta during normal years, supplying more than one-third of the County's overall water demand. The implementation of the *Delta Vision* recommendations will protect the County's residents from the potentially devastating impacts of events such as the Delta's Lower Jones Tract levee failure, a New Orleans Katrina-type flooding disaster, and the two in three chance of a 6.7 or greater magnitude earthquake in or near the Delta in the next 30 years.

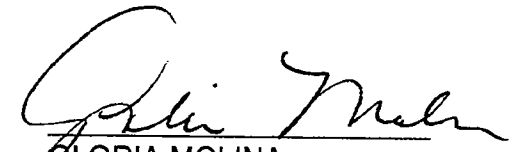
The Honorable Don Perata
September 12, 2008
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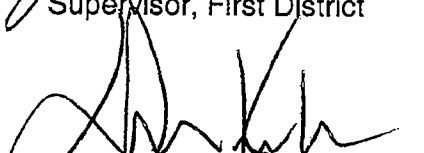
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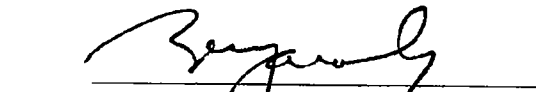
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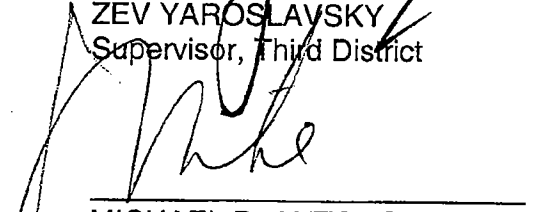
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DEAN D. EFSTATHIOU, Acting Director

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P.O. BOX 1460
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November 10, 2008

IN REPLY PLEASE

REFER TO FILE: **WW-0**
A2874-3

TO: Each Supervisor

FROM: Dean D. Efsthioiu
Acting Director of Public Works

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On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. A letter was sent to all 88 cities in the Los Angeles County on October 20, 2008 (see Attachment) to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance establishes water conservation and waste prevention measures for unincorporated County areas. In addition, the Waterworks Districts' Phased Water Conservation Plan has been updated and is expected to be submitted for your Board's

consideration in January 2009 following notification of the Districts' customers in accordance with the requirements of Proposition 218.

Action No. 3 (35 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) continue to gather water utility bill information and format data archiving and reporting features utilizing ISD's Enterprise Energy Management Information System to track the effectiveness of water conservation efforts at most County facilities. The Enterprise Energy Management Information System will facilitate reporting using water bill information from all County departments. An initial report on water savings results for calendar year 2008 is expected to be available in early 2009. Following the initial report, updated reports will be provided to your Board on a regular basis.

ISD commissioned a water savings study that focuses on water use for commercial building heating and cooling systems. The study is very applicable to the facilities managed by ISD because heating and cooling water use constitutes the largest demand for the buildings at these facilities. Substantial water savings can be achieved at many of these facilities by replacing older "once through" cooling water systems that require a continuous stream of water with newer systems that recirculate the cooling water. Cooling water recirculation systems have been tested at the Civic Center Heating and Refrigeration Plant and Peter J. Pitchess Honor Rancho Power Plant, two of the County's largest cooling-water-use facilities. Initial results from testing at these facilities indicate that water savings of approximately 15 percent (30 million gallons) can be achieved annually.

The installation of cooling water recirculation systems currently represents the most economical and effective method to reduce water consumption at County facilities. As a result, ISD has requested \$500,000 in its Fiscal Year 2009-10 Energy Efficiency Projects budget request to install the systems at facilities throughout the County. In the event that the budget request is not approved, ISD plans to provide support to its customer departments to fund implementation of the systems as part of their routine or extraordinary building maintenance budgets.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, representatives from the City of Los Angeles Department of Water and Power and the Metropolitan Water District of Southern California gave presentations on their available water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for the installation of water-saving devices. Facility managers from DPR, Beaches and Harbors, ISD, Community Development Commission, and the Sheriff and Fire Departments attended the meeting and propose to actively purchase and install water-saving devices. ISD will work with these departments to compile a list of water conservation projects and estimate the water savings.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008.

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008.

Action No. 6 (40 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee continues to work on identifying the specific County facilities to include in each phase of the infrastructure plan and developing the cost estimates for each phase. The Committee is preparing the written report to be submitted to your Board describing the plan.

Action No. 7 (25 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (100 percent complete)

Instruct the Acting Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly.

Each Supervisor
November 10, 2008
Page 5

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300.

DWP:dv
H:\WWW\HOME\DVASQUEZ\AMEMOS\A2874-3.doc

Attach.

cc: Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning

ATTACHMENT

October 20, 2008

COUNTYWIDE WATER SUPPLY AND CONSERVATION ALERT

An identical original of the attached letter was sent to each of the following:

Mr. Greg Ramirez
City Manager
City of Agoura Hills
30001 Ladyface Court
Agoura Hills, CA 91301

Mr. Vijay Singhal
Chief Executive Officer
City of Baldwin Park
14403 East Pacific Avenue
Baldwin Park, CA 91706-4297

Mr. Julio J. Fuentes
City Manager
City of Alhambra
111 South First Street
Alhambra, CA 90801-3796

Mr. Robert A. Rizzo
Chief Administrative Officer
City of Bell
6330 Pine Avenue
Bell, CA 90201-1291

Mr. Don Penman
City Manager
City of Arcadia
240 West Huntington Drive
Arcadia, CA 91007

Mr. Michael J. Egan
City Manager
City of Bellflower
16600 Civic Center Drive
Bellflower, CA 90706-5494

Ms. Maria Dadian
City Manager
City of Artesia
18747 Clarkdale Avenue
Artesia, CA 90701-5899

Mr. John Omelas
City Manager
City of Bell Gardens
7100 South Garfield Avenue
Bell Gardens, CA 90201-3293

Mr. Pete Woolson
City Manager
City of Avalon
Catalina Island-410 Avalon Canyon Road
Avalon, CA 90704

Mr. Roderick J. Wood
City Manager
City of Beverly Hills
455 North Rexford Drive
Beverly Hills, CA 90210

Mr. Francis Delach
City Manager
City of Azusa
213 East Foothill Boulevard
Azusa, CA 91702-1395

Ms. Michelle Keith
City Manager
City of Bradbury
600 Winston Avenue
Bradbury, CA 91008

October 20, 2008

Page 2

Ms. Mary J. Alvord
City Manager
City of Burbank
333 East Olive Avenue
Burbank, CA 91502

Mr. Tony Coroailes
City Manager
City of Calabasas
100 Civic Way
Calabasas, CA 91302

Mr. Jerome G. Groomes
City Manager
City of Carson
701 East Carson Street
Carson, CA 90745

Mr. Art Gallucci
City Manager
City of Cerritos
18125 South Bloomfield Avenue
Cerritos, CA 90701

Mr. Jeffery Parker
City Manager
City of Claremont
207 Harvard Avenue
Claremont, CA 91711-4719

Mr. Jorgee Rifa
City Administrator
City of Commerce
2535 Commerce Way
Commerce, CA 90040-1487

Mr. Charles Evans
City Manager
City of Compton
205 South Willowbrook Avenue
Compton, CA 90220-3190

Ms. Cynthia Kurtz
Interim City Manager
City of Covina
125 East College Street
Covina, CA 91723-2199

Mr. George Perez
City Manager
City of Cudahy
5220 Santa Ana Street
Cudahy, CA 90201-6097

Mr. Jerry B. Fulwood
City Manager
City of Culver City
9770 Culver Boulevard
Culver City, CA 90232-0507

Mr. Jim De Stefano
City Manager
City of Diamond Bar
21825 Copley Drive
Diamond Bar, CA 91765-4178

Mr. Gerald M. Caton
City Manager
City of Downey
11111 Brookshire Avenue
Downey, CA 90241

Mr. Darrell J. George
City Manager
City of Duarte
1600 Huntington Drive
Duarte, CA 91010-2592

Mr. James W. Mussenden
City Manager
City of El Monte
11333 Valley Boulevard
El Monte, CA 91731

October 20, 2008

Page 3

Mr. Jack Wayt
City Manager
City of El Segundo
350 Main Street
El Segundo, CA 90245-3895

Mr. Mitchell Lansdell
City Manager
City of Gardena
1700 West 162nd Street
Gardena, CA 90247-3778

Mr. James Starbird
City Manager
City of Glendale
613 East Broadway
Glendale, CA 91206-4308

Mr. Chris Jeffers
City Manager
City of Glendora
116 East Foothill Boulevard
Glendora, CA 91741

Mr. Ernesto Marquez
City Administrator
City of Hawaiian Gardens
21815 Pioneer Boulevard
Hawaiian Gardens, CA 90716-1257

Mr. Jag Pathirana
City Manager
City of Hawthorne
4455 West 126th Street
Hawthorne, CA 90250-4482

Mr. Stephen R. Burrell
City Manager
City of Hermosa Beach
1315 Valley Drive
Hermosa Beach, CA 90254-3884

Mr. Cherie Paglia
City Manager
City of Hidden Hills
6165 Spring Valley Road
Hidden Hills, CA 91302-1257

Mr. Gregory D. Korduner
City Manager
City of Huntington Park
6550 Miles Avenue
Huntington Park, CA 90255-4393

Mr. Kevin Radecki
City Manager
City of Industry
15651 East Stafford Street
Industry, CA 91744

Mr. Jerry Givens
Acting City Administrator
City of Inglewood
One Manchester Boulevard
Inglewood, CA 90301

Mr. Robert Griego
Interim City Manager
City of Irwindale
5050 Noth Irwindale Avenue
Irwindale, CA 91706-2192

Mr. Mark R. Alexander
City Manager
City of La Canada Flintridge
1327 Foothill Boulevard
La Canada Flintridge, CA 91011-2137

Ms. Shauna Clark
City Manager
City of La Habra Heights
1245 North Hacienda Boulevard
La Habra Heights, CA 90631-2570

October 20, 2008

Page 4

Mr. Howard L. Chambers
City Manager
City of Lakewood
5050 North Clark Avenue
Lakewood, CA 90712-2697

Mr. Thomas Robinson
City Manager
City of La Mirada
13700 La Mirada Boulevard
La Mirada, CA 90638-0828

Mr. Mark V. Bozigian
City Manager
City of Lancaster
44933 North Fern Avenue
Lancaster, CA 93534-2461

Ms. Carol Cowley
City Manager
City of La Puente
15900 East Main Street
La Puente, CA 91744-4788

Mr. Martin R. Lomeli
City Manager
City of La Verne
3660 D Street
La Verne, CA 91750-3599

Mr. Keith M. Breskin
City Manager
City of Lawndale
14717 Burin Avenue
Lawndale, CA 90260

Mr. Tom A. Odom
City Administrator
City of Lomita
24300 Narbonne Avenue
Lomita, CA 90717

Mr. Patrick H. West
City Manager
City of Long Beach
333 West Ocean Boulevard
Long Beach, CA 90802-4664

Mr. Raymond P. Ciranna
Interim City Administrative Officer
City of Los Angeles
200 North Main Street
Los Angeles, CA 90012-4801

Mr. Roger Haley
City Manager
City of Lynwood
11330 Bullis Road
Lynwood, CA 90262-3693

Mr. Jim Thorsen
City Manager
City of Malibu
23815 Stuart Ranch Road
Malibu, CA 90265-4861

Mr. Geoff Dolan
City Manager
City of Manhattan Beach
1400 Highland Avenue
Manhattan Beach, CA 90266-4728

Mr. Edward Ahrens
Chief Administrative Officer
City of Maywood
4319 East Slauson Avenue
Maywood, CA 90270-2897

Mr. Scott Ochoa
City Manager
City of Monrovia
415 South Ivy Avenue
Monrovia, CA 91016-2888

October 20, 2008

Page 5

Mr. Richard Torres
City Administrator
City of Montebello
1600 West Beverly Boulevard
Montebello, CA 90640-3970

Ms. June Yotsuya
City Manager
City of Monterey Park
320 West Newmark Avenue
Monterey, CA 91754

Mr. Emie V. Garcia
City Manager
City of Norwalk
12700 Norwalk Boulevard
Norwalk, CA 90650-3182

Mr. Steve Williams
City Manager
City of Palmdale
38250 North Sierra Highway
Palmdale, CA 93550-4798

Mr. Joseph Hoefgen
City Manager
City of Palos Verdes Estates
340 Palos Verdes Drive West
Palos Verdes, CA 90274

Ms. Linda Benedetti-Leal
City Manager
City of Paramount
16400 Colorado Avenue
Paramount, CA 90723-5091

Ms. Cynthia Kurtz
City Manager
City of Pasadena
100 North Garfield Avenue
Pasadena, CA 91101

Mr. Charles Fuente
City Manager
City of Pico Rivera
6615 South Passons Boulevard
Pico Rivera, CA 90660-1016

Ms. Linda Lowry
Assistant City Manager
City of Pomona
505 South Garey Avenue
Pomona, CA 91766-3320

Ms. Carolyn Lehr
City Manager
City of Rancho Palos Verdes
30940 Hawthorne Boulevard
Hawthorne, CA 90275

Mr. William Workman
City Manager
City of Redondo Beach
415 Diamond Street
Redondo Beach, CA 90277

Mr. Anton Dahlerbruch
City Manager
City of Rolling Hills
2 Portuguese Bend Road
Rolling Hills, CA 90274-5199

Mr. Douglas Prichard
City Manager/City Clerk
City of Rolling Hills Estates
4045 Palos Verdes Drive North
Rolling Hills Estates, CA 90274

Mr. Oliver Chi
City Manager
City of Rosemead
8838 East Valley Boulevard
Rosemead, CA 91770-1787

October 20, 2008

Page 6

Mr. Blaine M. Michaelis
City Manager
City of San Dimas
245 East Bonita Avenue
San Dimas, CA 91773-3002

Mr. Jose Pulido
City Administrator
City of San Fernando
117 Macneil Street
San Fernando, CA 91340-2993

Mr. P. Michael Paules
City Manager
City of San Gabriel
425 South Mission Drive
San Gabriel, CA 91776-1202

Mr. Matt Ballantyne
City Manager
City of San Marino
2200 Huntington Drive
San Marino, CA 91108-2691

Mr. Kenneth R. Pulskamp
City Manager
City of Santa Clarita
23920 West Valencia Boulevard, Ste 300
Santa Clarita, CA 91355-2196

Mr. Fred Latham
City Manager
City of Santa Fe Springs
11710 Telegraph Road
Santa Fe Springs, CA 90670

Mr. P. Lamont Ewell
City Manager
City of Santa Monica
1685 Main Street
Santa Monica, CA 90401-3295

Ms. Elaine Aguilar
City Manager
City of Sierra Madre
232 West Sierra Madre Boulevard
Sierra Madre, CA 91024-2312

Mr. Ken Farsfing
City Manager
City of Signal Hill
2175 Cherry Avenue
Signal Hill, CA 90755

Mr. Anthony Ybarra
City Manager
City of South El Monte
1415 North Santa Anita Avenue
South El Monte, CA 91733-3389

Mr. Ronald Bates
City Manager
City of South Gate
8650 California Avenue
South Gate, CA 90280-3059

Ms. Lilian Myers
City Manager
City of South Pasadena
1414 Mission Street
South Pasadena, CA 91030-3298

Mr. Charles Martin
City Manager/City Attorney
City of Temple City
9701 Las Tunas Drive
Temple City, CA 91780-2249

Mr. Leroy J. Jackson
City Manager
City of Torrance
3031 Torrance Boulevard
Torrance, CA 90503-5059

October 20, 2008

Page 7

Mr. Eric Fresch
City Administrator
City of Vernon
4305 Santa Fe Avenue
Vernon, CA 90058-1786

Mr. Paul Arevalo
City Manager
City of West Hollywood
8300 Santa Monica Boulevard
West Hollywood, CA 90069-4314

Mr. Rob Wishner
City Manager
City of Walnut
21201 La Puente Road
Walnut, CA 91789

Mr. Raymond B. Taylor
City Manager
City of Westlake Village
31200 Oak Crest Drive
Westlake Village, CA 91361

Mr. Andrew G. Pasmant
City Manager
City of West Covina
1444 West Garvey Avenue
West Covina, CA 91790

Mr. Steve Helvey
City Manager
City of Whittier
13230 East Penn Street
Whittier, CA 90602-1772

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Attach.



DEAND. EFSTATHIOU, Acting Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

IN REPLY PLEASE
REFER TO FILE: **WW-0**

October 20, 2008

COUNTYWIDE WATER SUPPLY AND CONSERVATION ALERT

On August 5, 2008, the Board of Supervisors adopted the enclosed Resolution declaring the Countywide Water Supply and Conservation Alert, which urges County residents, businesses, water purveyors, and cities to intensify water conservation efforts to achieve a 15 to 20 percent reduction in overall water demand. Additionally, the Resolution urges cities to accelerate and intensify their public outreach campaigns to communicate the need for extraordinary water conservation, update and adopt water wasting ordinances, and prepare for enforcement of the ordinances, if necessary.

Water supplies in Southern California have been significantly depleted due to dry weather conditions, lower than normal snowmelt runoff, depleted storage in the State's major reservoirs, an eight-year drought in the Colorado River Watershed, and recent court decisions affecting water exports from the Sacramento-San Joaquin Bay Delta. As a result, Governor Arnold Schwarzenegger proclaimed the first Statewide drought in 16 years on June 4, 2008. Less than a week later, on June 10, 2008, the Metropolitan Water District of Southern California issued a Water Supply Alert in Southern California.

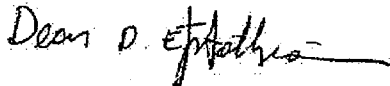
We recognize that your City may be actively engaged in water conservation and drought response activities and appreciate your support to improve the County's overall preparedness for the drought. We encourage you to intensify the City's local water conservation efforts to minimize the potential impacts of the Statewide drought on City residents.

October 20, 2008

Page 2

If you have any questions or would like our assistance with your water conservation efforts, please contact Mr. David Pedersen of our Waterworks Division at (626) 300-3302.

Very truly yours,

A handwritten signature in black ink, appearing to read "Dean D. Efsthio", with a horizontal line extending from the end of the signature.

DEAN D. EFSTATHIOU
Acting Director of Public Works

GH:dv

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Enc.

**A RESOLUTION OF THE BOARD OF SUPERVISORS OF THE
COUNTY OF LOS ANGELES, CALIFORNIA, DECLARING A
COUNTYWIDE WATER SUPPLY AND CONSERVATION ALERT**

WHEREAS, the State has experienced two consecutive years of below-average precipitation with March and April being the driest period in the northern Sierra since 1921, the first year that records were kept; and

WHEREAS, water runoff into streams and reservoirs is substantially lower than normal because water is being absorbed by parched soil due to last year's extremely dry weather, and

WHEREAS, Lake Oroville and San Luis Reservoir, the State Water Project's two largest reservoirs, are currently at 42 percent and 30 percent of operational capacity, substantially less than normal for this time of year; and

WHEREAS, recent court decisions have affected water exports from the Sacramento-San Joaquin Bay Delta (Delta) because of concerns related to five endangered fish species; and

WHEREAS, the Delta is vulnerable to events such as the Lower Jones Tract levee failure, the potential for a New Orleans Katrina-type flooding disaster; and the 2 in 3 chance of a 6.7 or greater magnitude earthquake in or near the Delta in the next 30 years; and

WHEREAS, climate change impacts are expected to increase the Delta's vulnerability and further reduce the reliability of deliveries from the State Water Project; and

WHEREAS, the Colorado River Watershed has experienced an 8-year drought, and the river system's storage is at approximately 50 percent of capacity; and

WHEREAS, on June 4, 2008, Governor Schwarzenegger signed Executive Order S-06-08, proclaiming the first Statewide drought in 16 years; and

WHEREAS, on June 10, 2008, the Metropolitan Water District of Southern California issued a Water Supply Alert in Southern California urging local agencies to pursue extraordinary conservation measures; and

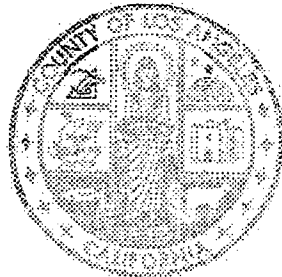
WHEREAS, on July 1, 2008, the Board of Supervisors approved a motion by Supervisor Don Knabe to implement recommendations submitted in a report prepared by the Acting Director of Public Works entitled "Response to Governor Schwarzenegger's Statewide Drought Proclamation"; to prepare a strategy to increase the use of recycled water at all County facilities; and to determine the impact the drought may have on the land development process and pending development projects in the unincorporated County area.

NOW, THEREFORE, BE IT RESOLVED, that the Board of Supervisors of the County of Los Angeles, hereby:

1. Declare a Countywide Water Supply and Conservation Alert.
2. Urge County residents, businesses, local water purveyors, and cities to intensify water conservation efforts to achieve a 15 to 20 percent reduction in overall water demand.
3. Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to the Board of Supervisors with recommended measures to reduce consumption by an additional 10 percent.
4. Urge local water purveyors and cities to accelerate and intensify public outreach campaigns to communicate the need for extraordinary water conservation to the general public.
5. Urge cities to update and adopt water wasting ordinances and prepare for the enforcement of the ordinances, if necessary.
6. Encourage County residents to follow 10 easy tips (Attachment A) to reduce their water consumption.

[illegible]

The foregoing Resolution was adopted on the 5th day of August, 2008,
by the Board of Supervisors of the County of Los Angeles.



SACHI A. HAMAI
Executive Officer of the
Board of Supervisors of
the County of Los Angeles

By *Sachi A. Hamai*

Deputy

APPROVED AS TO FORM:

RAYMOND G. FORTNER, JR.
County Counsel

By *Michael R. Fortner*

Deputy

10 EASY TIPS TO REDUCE WATER CONSUMPTION

1. **Shorten your watering cycles.** Up to 70 percent of residential water use goes to maintaining our yards. Taking one minute off a ten-minute cycle saves ten percent!
2. **Check your sprinkler system.** Do a weekly check for broken or clogged sprinkler heads and replace them right away. Make sure you are watering your yard and not the driveway or sidewalk.
3. **Fix those leaks.** Just a drip can waste more than 10,000 gallons per month. A leaking flapper on a toilet also increases flows at the water treatment plant.
4. **Plant native species or drought-tolerant plants.** Many of the lawns and plants we use are not intended for the unique climate in Southern California.
5. **Use a broom instead of a hose.** Sweeping up rather than hosing off leaves or grass clippings not only saves water, it reduces runoff.
6. **Get an adjustable hose nozzle for outdoor use.** With one of these you can adjust the spray to meet your needs. A hose running for five minutes uses the same amount of water as a 20-minute shower.
7. **Eliminate runoff.** Runoff could mean your lawn needs aeration. When you aerate your lawn, you give the water somewhere to go besides down the storm drain.
8. **Take shorter showers.** Cutting two minutes off your shower time can save 600 gallons a month for a family of four. If you change the showerhead to a water efficient model, you could save even more.
9. **Turn off the water** while you brush your teeth or shave.
10. **Wash only full loads of laundry or dishes.** Waiting until you have a full load can save you up to 20 gallons for the same amount of clean clothes.



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

December 10, 2008

IN REPLY PLEASE

REFER TO FILE: **WW-0**
A2874-4

TO: Each Supervisor

FROM: Gail Farber *Gail Farber*
Director of Public Works

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the fourth monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. A letter was sent to all 88 cities in the Los Angeles County on October 20, 2008, to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance establishes water conservation and waste prevention measures for unincorporated County areas. In addition, the Waterworks Districts' Phased Water Conservation Plan has been updated and is expected to be submitted for your Board's consideration on February 24, 2009, following notification of the Districts' customers in accordance with the requirements of Proposition 218.

Action No. 3 (60 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) continue to gather water utility bill information and format data archiving and reporting features utilizing ISD's Enterprise Energy Management Information System to track the effectiveness of water conservation efforts at most County facilities. The Enterprise Energy Management Information System will facilitate reporting using water bill information from all County departments. Preliminary water savings results for 69 facilities (210 accounts), representing 75 percent of the total water consumption at ISD-managed facilities, indicate a 7 to 8 percent reduction in water use for July through September 2008 as compared to the same period in 2006. An initial report on water savings results for the first half of Fiscal Year 2008-09 is expected to be available in early 2009. Following the initial report, updated reports will be provided to your Board on a regular basis.

ISD commissioned a water savings study that focuses on water use for commercial building heating and cooling systems. Cooling water use constitutes a large portion of the water at these facilities. Substantial water savings can be achieved at many of these facilities by replacing older cooling water systems that require a continuous stream of water with newer systems that recirculate the cooling water. Cooling water recirculation systems have been tested at the Civic Center Heating and Refrigeration Plant and Peter J. Pitchess Honor Rancho Power Plant, two of the County's largest cooling-water-use facilities. Initial results from testing at these facilities indicate that water savings of approximately 15 percent (30 million gallons) can be achieved annually. Additional systems are scheduled for installation at other selected sites in early 2009.

The installation of cooling water recirculation systems currently represents the most economical and effective method to reduce water consumption at County facilities. As a result, ISD has requested \$500,000 in its Fiscal Year 2009-10 Energy Efficiency Projects budget request to install the systems at facilities throughout the County. In the event that the budget request is not approved, ISD plans to provide support to its customer departments to fund implementation of the systems as part of their routine or extraordinary building maintenance budgets.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, representatives from the City of Los Angeles Department of Water and Power and the Metropolitan Water District of Southern California gave presentations on their available water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for the installation of water-saving devices. Facility managers from DPR, Beaches and Harbors, ISD, Community Development Commission, and the Sheriff and Fire Departments attended the meeting and propose to actively purchase and install water-saving devices. ISD will work with these departments to compile a list of water conservation projects and estimate the water savings.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008.

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008.

Action No. 6 (80 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee continues to work on identifying the specific County facilities to include in each phase of the infrastructure plan and developing the cost estimates for each phase. The Committee is preparing the written report to be submitted to your Board describing the plan by the due date of December 31, 2008.

Action No. 7 (30 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (100 percent complete)

Instruct the Acting Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly.

Each Supervisor
December 10, 2008
Page 5

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300.

DWP:dv

C:\Documents and Settings\csmith\Local Settings\Temporary Internet Files\OLK258\A2874-4 (2).doc

Attach.

cc: Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

January 13, 2009

IN REPLY PLEASE

REFER TO FILE: **WW-0**
A2874-5

TO: Each Supervisor

FROM: Gail Farber
Director of Public Works

A handwritten signature in black ink, appearing to read "Gail Farber", is written over the printed name and title.

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the fifth monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. A letter was sent to all 88 cities in the Los Angeles County on October 20, 2008, to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance established water conservation and waste prevention measures for unincorporated County areas. A letter was sent on December 30, 2008, to all water companies serving unincorporated County area residents (copy attached) to request that they inform their customers of the ordinance and encourage their customers' voluntary compliance with the ordinance's provisions.

In addition, the Waterworks Districts' Phased Water Conservation Plan has been updated and is expected to be submitted for your Board's consideration in February 2009 following notification of the Districts' customers in accordance with the requirements of Proposition 218.

Action No. 3 (75 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) are finalizing their water utility bill analysis to determine the effectiveness of recent conservation efforts to reduce Countywide water usage. At the same time, ISD is formatting and archiving this data utilizing ISD's Enterprise Energy Management Information System (EEMIS) to track water costs and consumption. EEMIS will facilitate future tracking and reporting using water bill information from all County departments. Due to normal billing cycles, the consumption results for water account billings through December 31, 2008, will not be available for reporting until late February or early March 2009. Following that report, updated reports will be provided to your Board on a regular basis. Preliminary water savings results for ISD-managed facilities indicate about an 8 percent reduction in water use for July through October 2008 as compared to the same period in 2006.

ISD commissioned a water savings study that focuses on water use for commercial building heating and cooling systems. Cooling water constitutes a large portion of the water use at these facilities. Substantial water savings can be achieved at many of these facilities by replacing older cooling water systems that require a continuous stream of water with newer systems that recirculate the cooling water. Cooling water recirculation systems have been installed at the Civic Center Heating and Refrigeration Plant and Peter J. Pitchess Honor Rancho Power Plant, two of the County's largest cooling-water-use facilities. Initial results from testing at these facilities indicate that water savings of approximately 15 percent (30 million gallons) can be achieved annually. Additional systems are scheduled for installation at other selected sites in early 2009.

The installation of cooling water recirculation systems currently represents the most economical and effective method to reduce water consumption at County facilities. As a result, ISD has requested \$500,000 in its Fiscal Year 2009-10 Energy Efficiency Projects budget request to install the systems at facilities throughout the County. In the event that the budget request is not approved, ISD plans to provide support to its customer departments to fund implementation of the systems as part of their routine or extraordinary building maintenance budgets.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, representatives from the City of Los Angeles Department of Water and Power and the Metropolitan Water District of Southern California gave presentations on their available water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for the installation of water-saving devices. Facility managers from DPR, Beaches and Harbors, ISD, Community Development Commission, and the Sheriff and Fire Departments attended the meeting and indicated that they are installing water-saving devices for their facilities.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008.

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008.

Action No. 6 (95 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR,

Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee has completed its draft final report. It has been circulated for comments within Public Works, DPR, ISD and CEO. The Committee expects to submit the report to your Board by January 31, 2009.

Action No. 7 (30 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (100 percent complete)

Instruct the Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Each Supervisor
January 13, 2009
Page 5

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly.

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300.

DWP:dv

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Attach.

cc: Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning

December 30, 2008

**WATER CONSERVATION AND WASTE PREVENTION REQUIREMENTS
FOR UNINCORPORATED COUNTY AREAS**

An identical original of the attached letter was sent to each of the following:

Mr. Larry Payne
Agua-J Mutual Water Company
44665 North 95th Street East
Valencia, CA 93535

Mr. Michael Smith
Baxter Mutual Water Company
46124 125th Street East
Lancaster, CA 93535

Mr. Joe Marcinko
California American Water Company
(Baldwin Hills)
8657 East Grand Avenue
Rosemead, CA 91770

Mr. Chris Whitley
California Water Service (Lancaster)
5015 West Avenue L-14, Unit 2
Quartz Hill, CA 93536

Ms. Juanita Hernandez
City of Covina
534 North Barranca Avenue
Covina, CA 91723

Mr. Jerry Mesa
City of La Verne Water Department
3660 D Street
La Verne, CA 91750

Ms. Melody Fargo
Colorado Mutual Water Company
P.O. Box 482
Lancaster, CA 93584

Mr. Nguyen Bui
Azusa Light and Water
729 North Azusa Avenue
Azusa, CA 91702

Mr. John Blalock
Big Rock Mutual Water Company
32810 165th Street East
Llano, CA 93544-1011

Jim Byerrum and Che Venegas
California Domestic Water Company
15111 Whittier Boulevard, No. 220
Whittier, CA 90603

Mr. David Karraker
California Water Service Company
(East Los Angeles)
3316 West Beverly Boulevard
Montebello, CA 90640

Mr. Steve Patton
City of Glendora
116 East Foothill Boulevard
Glendora, CA 91741

Mr. Joe Porras
City of Los Angeles
Water and Power Department
Water Distribution Engineering Section
111 North Hope Street, Room 1425
Los Angeles, CA 90012

Mr. Dennis Erdman
Crescenta Valley County Water District
2700 Foothill Boulevard
La Crescenta, CA 91214

Mr. Wayne Goehring
East Pasadena Water Company
3725 East Mountain View Avenue
Pasadena, CA 91107

Mr. Robert Todd Lemen
Evergreen Mutual Water Company
4646 East Lumber Street
Lancaster, CA 93535

Mr. Gary Almstead
Green Valley County Water District
39520 Calle Cascada
Green Valley, CA 91350

Mr. Douglas Caister
La Canada Irrigation District
1443 Foothill Boulevard
La Canada, CA 91011

Mr. Todd Hull
La Puente Water Company
112 North First Street
La Puente, CA 91744

Land Projects Mutual Water Company
8810 West Avenue E8
Lancaster, CA 93536

Ms. Marsha Eubanks
Las Virgenes Municipal Water District
4232 Las Virgenes Road
Calabasas, CA 91302

Little Baldy Mutual Water Company
20745 Fort Tejon Road
Llano, CA 93544

Ms. Jeanne Miller
El Dorado Mutual Water Company
P.O. Box 900519
Palmdale, CA 93590

David Chang and Toby Moore
Golden State Water Company
630 East Foothill Boulevard
San Dimas, CA 91773

Mr. Chris Burt
Kinneloa Irrigation District
1999 Kinclair Drive
Pasadena, CA 91107

Mr. Michael Gualtiri
La Habra Heights County Water District
1271 North Hacienda Road
La Habra Heights, CA 90631

Mr. Tom Guy
Lake Elizabeth Mutual Water Company
14960 Elizabeth Lake Road
Lake Elizabeth, CA 93532

Mr. Bill Kimberling
Las Flores Water Company
428 East Sacramento Street
Altadena, CA 91007

Mr. Robert J. Hayward
Lincoln Avenue Water Company
564 West Harriet Street
Altadena, CA 91001-4537

Mr. Brad Bones
Littlerock Creek Irrigation District
35141 North 87th Street East
Littlerock, CA 93543

December 30, 2008

Page 3

Mr. James Lombardi
Llano Del Rio Water Company
32810 165th Street East
Llano, CA 93544

Mr. Felix Contreras
Lynwood Park Mutual Water Company
2644 East 124th Street
Compton, CA 90222

Mr. Tom Coleman
Orchard Dale County Water District
13819 East Telegraph Road
Whittier, CA 90604

Mr. Robert Toone
Palmdale Water District
2029 East Avenue Q
Palmdale, CA 93550

Mr. Chad Reid
Quartz Hill County Water District
42141 50th Street West
Quartz Hill, CA 93536

Ms. Lilian Woods
Rubio Canyon Land and Water Associates
583 East Sacramento Street
Altadena, CA 91001

M.L. Whitehead
San Gabriel Valley Water Company
11142 Garvey Avenue
El Monte, CA 91733

Mr. James Lombardi
Llano Mutual Water Company
32810 165th Street East
Llano, CA 93544

Ms. Danielle Burleson
Newhall County Water District (Castaic,
Newhall, Pinetree, Tesoro Del Valle)
P.O. Box 220970
Newhall, CA 91322

Mr. Phil Shott
Palm Ranch Irrigation District
4871 West Avenue M (Columbia Way)
Quartz Hill, CA 93536

Mr. Jim Elliott
Park Water Company (Bellflower,
Norwalk, Compton, Lynwood)
9750 Washburn Road
Downey, CA 90241

Mr. Ken Deck
Rowland Water District
3021 South Fullerton Road
Rowland Heights, CA 91748

Mr. Charles E. Shaw
San Gabriel County Water District
8366 Grand Avenue
Rosemead, CA 91770

Mr. Bill Manetta
Santa Clarita Water Division
Castaic Lake Water Agency
22722 Soledad Canyon Road
Santa Clarita, CA 91350

December 30, 2008

Page 4

Kiben Love
Sativa Los Angeles County Water District
2015 East Hatchway Street
Compton, CA 90222

Mr. Reginald Stone
Suburban Water System
1211 East Center Court Drive
Covina, CA 91724-3603

Mr. Tom Stoikowitz
Sunny Slope Water Company
1040 El Campo Drive
Pasadena, CA 91107

Mr. Doug Gaudi
Tierra Bonita Mutual Water Company
5159 East Avenue K-8
Lancaster, CA 93534

Mr. Keith Abercrombie
Valencia Water Company
24631 Avenue Rockefeller
Valencia, CA 91355

Mr. Michael Holmes
Walnut Valley Water District
271 South Brea Canyon Road
Walnut, CA 91789

Mr. Mark Crosby
West Valley County Water District
25315 West Ideal Avenue
Lancaster, CA 93536

Mic Ilson
Wilsona Gardens Mutual
Water Company
44804 10th Street West
Lancaster, CA 93534

Ms. Jeanne Miller
Shadow Acres Mutual Water Company
40115 15th Street West
Palmdale, CA 93551

Ms. Vanessa Carrier
Sundale Mutual Water Company
P.O. Box 6708
Lancaster, CA 93539-6708

Ms. Jeanne Miller
Sunnyside Farms Mutual Water Company
P.O. Box 901025
Palmdale, CA 93590

Mr. Dave Michalko
Valencia Heights Water Company
3009 East Virginia Avenue
West Covina, CA 91791

Mr. Martin Gonzalez
Walnut Park Mutual Water Company
2460 East Florence Avenue
Huntington Park, CA 90255

Mr. Phil Wood
West Side Park Mutual Water Company
40317 11th Street West
Palmdale, CA 93551

Mr. Randy Moore
White Fence Farms Mutual Water
Company
41901 North 20th Street West
Palmdale, CA 93551



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

December 30, 2008

IN REPLY PLEASE
REFER TO FILE: WW-1

WATER CONSERVATION AND WASTE PREVENTION REQUIREMENTS FOR UNINCORPORATED COUNTY AREAS

On October 7, 2008, the Los Angeles County Board of Supervisors adopted the enclosed Ordinance enacting water conservation and waste prevention requirements to minimize the potential impacts of the Statewide drought on unincorporated County residents.

The Ordinance prohibits various wasteful water-use practices, including hosing down paved surfaces, watering between 10 a.m. and 5 p.m. or more than once per day, allowing runoff into streets or alleys from excessive watering, and washing vehicles without a hand-held bucket or automatic hose shutoff valve. Additionally, the Ordinance requires residents to inspect their hoses, sprinkler systems, and indoor plumbing for leaks and to repair any leaks in a timely manner. Residents who do not comply with the Ordinance's provisions may receive a written warning for the first violation and a fine of \$100 for each subsequent violation.

We request that you notify your unincorporated County area customers of the Ordinance using the enclosed draft information flyer and encourage their voluntary compliance with the Ordinance's provisions. An electronic version of the flyer is also available on our website at www.lacwaterworks.org. Based on our experience during the last drought when a similar Ordinance was in effect, we expect to achieve compliance with the Ordinance's provisions primarily through public education and outreach. However, representatives of the County Department of Public Health, Bureau of District Surveillance and Enforcement, are available to issue water wasting citations for repeat violations, if necessary.

December 30, 2008
Page 2

If you have any questions or need additional information regarding the Ordinance, please contact Ms. Melinda Barrett of our Waterworks Division at (626) 300-3362. To request enforcement action for repeat violations of the Ordinance's provisions, please contact Ms. Patricia Jocas of the Department of Public Health at (626) 430-5216.

Very truly yours,

GAIL FARBER
Director of Public Works

A handwritten signature in black ink, appearing to read 'Adam Ariki', is written over the printed name and title.

ADAM ARIKI
Assistant Deputy Director
Waterworks Division

DWP:lr
MBLTS002

Enc.

cc: Department of Public Health (Jackie Taylor)

ORDINANCE NO. 2008-00052U

An urgency ordinance amending Title 11 - Health and Safety of the Los Angeles County Code, relating to water conservation requirements for the Unincorporated Los Angeles County Area.

The Board of Supervisors of the County of Los Angeles ordains as follows:

SECTION 1. Chapter 11.38, Part 4, is hereby readopted as amended to read as follows:

**Part 4. Water Conservation Requirements for the Unincorporated
Los Angeles County Area**

11.38.620 Hose watering prohibition.

No person shall hose water or wash down any sidewalks, walkways, driveways, parking areas or other paved surfaces, except as is required for the benefit of public health and safety. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for each subsequent violation.

11.38.630 Watering of lawns and landscaping.

- A. No person shall water or cause to be watered any lawn or landscaping between the hours of 10:00 a.m. and 5:00 p.m.
- B. No person shall water or cause to be watered any lawn or landscaping more than once a day.
- C. No person shall water or cause to be watered any lawn or landscaping to such an extent that runoff into adjoining streets, parking lots or alleys

occurs due to incorrectly directed or maintained sprinklers or excessive watering.

- D. It shall be the duty of all persons to inspect all hoses, faucets and sprinkling systems for leaks, and to cause all leaks to be repaired as soon as is reasonably practicable.
- E. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for each subsequent violation.

11.38.640 Indoor plumbing and fixtures.

- A. It shall be the duty of all persons to inspect all accessible indoor plumbing and faucets for leaks, and to cause all leaks to be repaired as soon as is reasonably practicable.
- B. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for each subsequent violation.

11.38.650 Washing vehicles.

No motor vehicle, boat, trailer, or other type of mobile equipment may be washed, except at a commercial carwash or with reclaimed water, unless such vehicle is washed by using a hand-held bucket or a water-hose equipped with an automatic shutoff nozzle. No person shall leave a water hose running while washing a vehicle or at any other time. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a

fine of \$100.00 for each subsequent violation.

11.38.660 Public eating places.

No restaurant, hotel, cafeteria, café, or other public place where food is sold or served shall serve drinking water to any customer unless specifically requested to do so by such customer. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for each subsequent violation.

11.38.670 Decorative fountains.

No person shall use water to clean, fill, or maintain levels in decorative fountains, ponds, lakes, or other similar aesthetic structures unless such water flows through a recycling system. Willful violation hereof shall be subject to a written warning for the first violation, and shall be an infraction punishable by a fine of \$100.00 for each subsequent violation.

11.38.680 Procedural requirements.

The Director of Public Works, with input and concurrence from the Director of Public Health, shall periodically review the provisions of this Part and recommend necessary updates to the Board of Supervisor. The review of the provisions and preparation of resulting recommendations, if any shall be performed, at a minimum, every two years following the first review, which shall to be completed by December 31, 2010.

SECTION 2. Due to the severity of the drought in the State of California, there is an immediate need to prohibit the wasting of water in the Los Angeles County unincorporated area to better utilize the available water supplies. This ordinance is urgently needed for the preservation of the public health, safety, and general welfare, and shall take effect immediately.

SECTION 3. This ordinance shall be published in The Metropolitan News a newspaper printed and published in the County of Los Angeles.



Yvonne B. Burke
Chair

ATTEST:

Sachi A. Hamai
Sachi A. Hamai
Executive Officer -
Clerk of the Board of Supervisors
County of Los Angeles

I hereby certify that at its meeting of October 7, 2008 the foregoing ordinance was adopted by the Board of Supervisors of said County of Los Angeles by the following vote, to wit:

	<u>Ayes</u>	<u>Noes</u>
Supervisors	<u>Gloria Molina</u>	<u>None</u>
	<u>Zev Yaroslavsky</u>	
	<u>Don Knabe</u>	
	<u>Michael D. Antonovich</u>	
	<u>Yvonne B. Burke</u>	

Effective Date: October 7, 2008

Operative Date: _____

Sachi A. Hamai
Sachi A. Hamai
Executive Officer -
Clerk of the Board of Supervisors
County of Los Angeles



APPROVED AS TO FORM:
RAYMOND G. FORTNER, JR.
County Counsel

By Leela Kapur
Leela Kapur
Chief Deputy County Counsel

NEW ORDINANCE PROHIBITS WASTING WATER IN UNINCORPORATED LOS ANGELES COUNTY AREAS

In October, the Los Angeles County Board of Supervisors approved Ordinance No. 2008-00052U to promote water conservation in County unincorporated areas. The Ordinance specifically prohibits the following activities:

- ❖ Washing down sidewalks, driveways, parking areas or other paved surfaces, except as required for the benefit of public health and safety.
- ❖ Watering lawns and landscaping between the hours of 10:00 a.m. and 5:00 p.m.
- ❖ Watering any lawn or landscaping more than once a day.
- ❖ Watering any lawn or landscaping to such an extent that water runs off into streets or parking lots due to incorrectly directed or maintained sprinklers or excessive watering.
- ❖ Washing vehicles, boats, trailers, or other mobile equipment, except at a commercial carwash or with reclaimed water, unless using a hand-held bucket or a hose equipped with an automatic shutoff nozzle.
- ❖ Leaving a water hose running while washing a vehicle or at any other time.
- ❖ Cleaning or filling decorative fountains, ponds, lakes, or other similar features unless the water flows through a recycling system.
- ❖ No restaurant, hotel, cafeteria, café, or other public place where food is sold or served shall provide drinking water to any customer unless specifically requested to do so.

The Ordinance also requires everyone to inspect all indoor plumbing and faucets, as well as all hoses, outdoor faucets and sprinkler systems for leaks, and to repair them as soon as possible. Violation of the ordinance is subject to a written warning for the first violation, and is punishable by a fine of \$100.00 for each subsequent violation.

To report overwatering or runoff, or for more information about water conservation, contact us.

Insert Logo and Contact Information Here



COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

DEAN D. EFSTATHIOU, Acting Director

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

September 10, 2008

IN REPLY PLEASE
REFER TO FILE: WW-0
A2874

TO: Each Supervisor

FROM: Dean D. Efstathiou *DDE*
Acting Director of Public Works

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the first monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. Public Works will prepare and send a letter to all 88 cities in Los Angeles County to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance has been prepared and approved by County Counsel. The proposed ordinance establishes water conservation and waste prevention measures for unincorporated County areas. In addition, the Waterworks Districts' Phased Water Conservation Plan has been updated. The ordinance and the plan are expected to be submitted by Public Works for your Board's consideration by early October.

Action No. 3 (15 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) developed a list of recommended water conservation measures that has been provided to those departments that perform facility maintenance throughout the County.

ISD receives water bills for all County departments, except for Public Works and DPR. To measure results for all County departments, the CEO and ISD is working with Public Works and DPR to enter their past billing information into ISD's Enterprise Energy Management Information System (EEMIS). This will establish baseline water consumption data for every County department. Future billing information will be input into EEMIS to compare against baseline consumption and to easily provide future water savings reports. ISD will report monthly to your Board on the water savings.

ISD conducts quarterly meetings with departmental managers who oversee facility maintenance throughout the County. At these meetings, implementation of conservation measures, best management practices, and reporting of water savings results will be discussed. The next meeting is scheduled for September 23, 2008.

DPR is evaluating the expanded use of recycled water at County parks and golf courses. DPR also proposes to apply for \$1,307,027 in financial assistance from the Metropolitan Water District to upgrade irrigation controllers and sprinkler heads with high efficiency water conserving devices at 70 County Park facilities. In addition, DPR has installed waterless urinals in various park facilities and has developed drought tolerant and native landscape design standards as a water conservation measure for their department.

Public Works has reduced irrigation water use at its headquarters by approximately 25 percent and is modifying its air conditioning system to reduce consumption for cooling by approximately 99 percent. Additionally, the feasibility of installing waterless urinals at Public Works facilities, which could result in future water reduction, is being assessed.

Other County departments, including the Sheriff's Department, Fire Department, Department of Beaches and Harbors, and Department of Public Health are assessing their water-intensive operations to identify water conservation opportunities. With support from ISD, these departments are focusing on reducing landscape irrigation water use and improving the efficiency of the air-conditioning systems for their buildings.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008 (see Attachment A).

Action No. 5 (90 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A draft five-signature letter to the Governor and leadership of the Legislature was prepared and sent to the Chief Executive Office (CEO), Intergovernmental Relations Branch, for review and comments. The letter is expected to be ready for your signatures by late September.

Action No. 6 (20 percent complete)

Direct the Chief Executive Officer through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

As reported to your Board last month, the request for a cost estimate for converting County facilities to recycled water that was included in the adopted Board Motion by Supervisor Knabe on July 1, 2008, has been added to Action No. 6. A Recycled Water

Infrastructure Implementation Committee, comprised of representatives from the CEO, the Office of Water Recycling, the Energy and Environmental Policy Team, ISD, and DPR has been formed to prepare the recycled water infrastructure plan. The Committee held its first meeting on July 21, 2008, and established protocols for the review and approval of the recycled water infrastructure plan.

A preliminary review of water usage by County facilities indicates that parks, golf courses, jails, and hospitals are the largest water users within the County. Converting existing facilities to using recycled water for irrigation is the simplest type of conversion; therefore, the initial phase of the infrastructure plan will focus on DPR facilities. While numerous DPR facilities have already been converted, DPR has conducted an analysis of their facilities, is in the process of completing their recycled water plan for their department, and developed a preliminary list of priorities for performing the conversion for the remainder of their facilities based on their proximity to a recycled water pipeline. DPR has contacted the appropriate recycled water purveyor for these facilities and is developing cost estimates and schedules for converting these facilities. DPR has submitted initial cost estimates to the CEO for four parks that are available for recycled water conversion. ISD and the CEO have begun assessing the remaining County facilities for conversion. As indicated in the previous report to your Board, the infrastructure plan is expected to be completed prior to January 1, 2009.

Action No. 7 (20 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (50 percent complete)

Instruct the Acting Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought

Each Supervisor
September 10, 2008
Page 5

may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR prepared and sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. We are still collecting information from these water purveyors. Presently, we are analyzing the information to determine the drought's impact on the County land development review policies and procedures. We are scheduled to report back to your Board on this item on October 14, 2008.

Additional County Water Conservation Efforts and Accomplishments

Under the direction of your Board and the CEO, County departments, including Public Works and the special Districts it operates, ISD, DPR, Fire Department, Sheriff's Department, Department of Beaches and Harbors, and the Department of Public Health, are engaged in many water conservation efforts. Attachment B is a summary of our water conservation efforts and recent accomplishments.

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300.

DWP:ea

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Attach.

cc: Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning

ATTACHMENT A



SACHI A. HAMAI
EXECUTIVE OFFICER

**COUNTY OF LOS ANGELES
BOARD OF SUPERVISORS**

KENNETH HAHN HALL OF ADMINISTRATION
500 WEST TEMPLE STREET, ROOM 343
LOS ANGELES, CALIFORNIA 90012
(213) 974-1411 • FAX (213) 620-0636

MEMBERS OF THE BOARD

GLORIA MOLINA

YVONNE B. BURKE

ZEV YAROŠLAVSKY

DON KNABE

MICHAEL D. ANTONOVICH

July 7, 2008

The Honorable Arnold Schwarzenegger
Governor, State of California
State Capitol
Sacramento, CA 95814

Dear Governor Schwarzenegger:

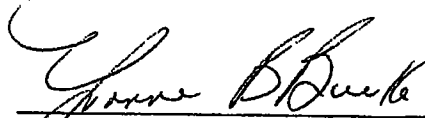
On behalf of the ten million residents living in Los Angeles County, we want to thank you for your leadership in addressing the drought situation in California with the issuance of Executive Order S-06-08 which directed the State Department of Water Resources (DWR) and other State agencies to take specific actions to reduce the impacts of the drought and improve local agencies' abilities to meet anticipated demands. We support the directive given by you to DWR and respectfully request that you urge the Legislature to expedite the appropriation of funds from Propositions 84 and 1E due to the current water crisis.

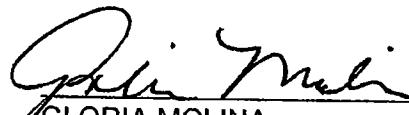
Los Angeles County has numerous programs and projects specifically intended to conserve water and reduce the use of water, including unfunded, ready-to-go projects submitted recently through the Integrated Regional Watershed Management Implementation Grant Program under Proposition 50. There is \$1 billion available for Integrated Regional Water Management projects under Proposition 84 and additional funds available under Proposition 1E. We are asking the Legislature to appropriate these funds to DWR in order to provide money to local agencies to implement critical water resource projects. DWR is currently working to establish criteria and grant application processes for funding from these propositions. Consistent with your Executive Order, these criteria and processes should be streamlined and expedited so these funds reach local water districts and other local agencies as quickly as possible.

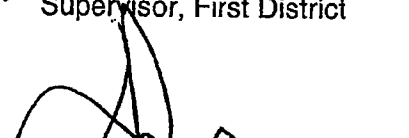
The Honorable Arnold Schwarzenegger
July 7, 2008
Page 2

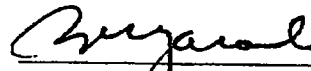
We request your support and appreciate your consideration of our request. If the Legislature appropriates the funds in a timely manner the impacts of the Statewide drought on the residents of Los Angeles County as well as residents throughout the State will be reduced.

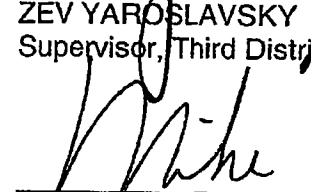
Sincerely,


YVONNE B. BURKE
Chair of the Board
Supervisor, Second District


GLORIA MOLINA
Supervisor, First District


DON KNABE
Supervisor, Fourth District


ZEV YAROSLAVSKY
Supervisor, Third District


MICHAEL D. ANTONOVICH
Supervisor, Fifth District

c: Susan Kennedy, Chief of Staff, Office of the Governor
Cynthia Bryant, Director, Planning and Research Office, Office of the Governor
Michael Genest, Director, California Department of Finance
Lester A. Snow, California Department of Water Resources



SACHI A. HAMAI
EXECUTIVE OFFICER

COUNTY OF LOS ANGELES BOARD OF SUPERVISORS

KENNETH HAHN HALL OF ADMINISTRATION
500 WEST TEMPLE STREET, ROOM 383
LOS ANGELES, CALIFORNIA 90012
(213) 974-1411 • FAX (213) 620-0636

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YVONNE B. BURKE

ZEV YAROSLAVSKY

DON KNABE

MICHAEL D. ANTONOVICH

July 7, 2008

The Honorable Karen Bass
Speaker, California State Assembly
State Capitol, Room 219
Sacramento, CA 95814

Dear Madam Speaker:

On behalf of the ten million residents living in Los Angeles County, we are writing to urge you to appropriate funds from Propositions 84 and 1E as quickly as possible due to the current water crises. California's water supply is experiencing drastic reductions that challenge local agencies' abilities to meet anticipated demands. These reductions are due to a Statewide drought in California, environmental impacts limiting deliveries from the State water project, and an eight-year drought in the Colorado River Watershed.

On June 4, 2008, Governor Schwarzenegger proclaimed a Statewide drought and issued Executive Order S-06-08 directing the California Department of Water Resources (DWR) and other State agencies to take specific actions to reduce the impacts of the drought and improve local agencies' abilities to meet anticipated demands.

The first directive contained within Executive Order S-06-08 orders DWR to:

Expedite existing grant programs for local water districts and agencies for new or ongoing water conservation and water use reduction programs and projects that are capable of timely implementation to ease drought conditions in 2008 or 2009.

We support the recent directive given by the Governor to DWR. Los Angeles County has numerous programs and projects specifically intended to conserve water and reduce the use of water, including unfunded, ready-to-go projects submitted recently through the Integrated Regional Watershed Management Implementation Grant Program under Proposition 50. There is \$1 billion available for Integrated Regional

The Honorable Karen Bass

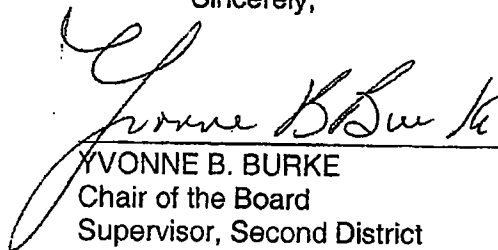
July 7, 2008

Page 2

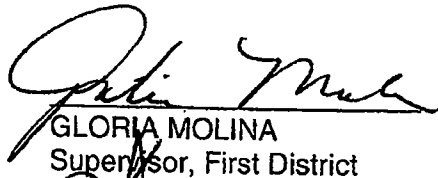
Water Management projects under Proposition 84 and additional funds available under Proposition 1E. We are asking the Legislature to appropriate these funds to DWR in order to provide money to local agencies to implement critical water resource projects. DWR is currently working to establish criteria and grant application processes for funding from these propositions. Consistent with the Governor's Executive Order, these criteria and processes should be streamlined and expedited so these funds reach local water districts and other local agencies as quickly as possible.

We appreciate your consideration of our request, which will lessen the impacts of the Statewide drought on the residents of Los Angeles County as well as residents throughout the State.

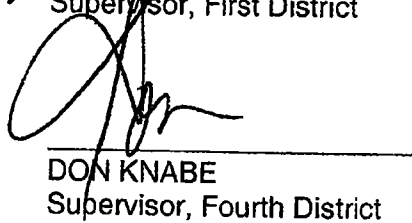
Sincerely,



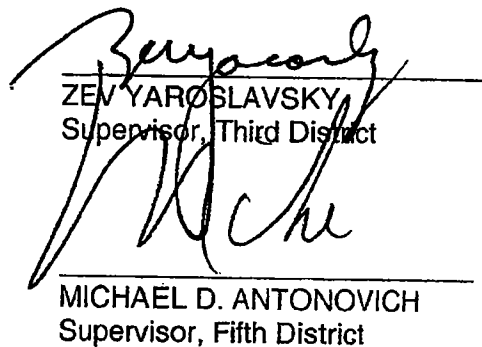
YVONNE B. BURKE
Chair of the Board
Supervisor, Second District



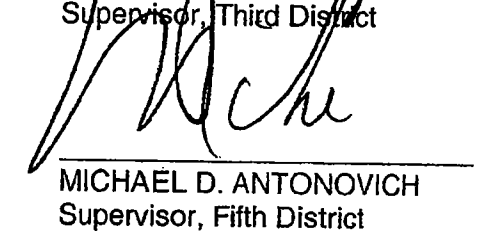
GLORIA MOLINA
Supervisor, First District



DON KNABE
Supervisor, Fourth District



ZEV YAROSLAVSKY
Supervisor, Third District



MICHAEL D. ANTONOVICH
Supervisor, Fifth District



SACHI A. HAMAI
EXECUTIVE OFFICER

COUNTY OF LOS ANGELES BOARD OF SUPERVISORS

KENNETH HAHN HALL OF ADMINISTRATION
500 WEST TEMPLE STREET, ROOM 383
LOS ANGELES, CALIFORNIA 90012
(213) 974-1411 • FAX (213) 620-0636

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GLORIA MOLINA

YVONNE B. BURKE

ZEV YAROŠLAVSKY

DON KNABE

MICHAEL D. ANTONOVICH

July 7, 2008

The Honorable Dave Cogdill
Senate Minority Floor Leader
State Capitol, Room 305
Sacramento, CA 95814

Dear Senator Cogdill:

On behalf of the ten million residents living in Los Angeles County, we are writing to urge you to appropriate funds from Propositions 84 and 1E as quickly as possible due to the current water crises. California's water supply is experiencing drastic reductions that challenge local agencies' abilities to meet anticipated demands. These reductions are due to a Statewide drought in California, environmental impacts limiting deliveries from the State water project, and an eight-year drought in the Colorado River Watershed.

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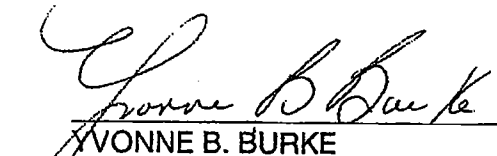
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The Honorable Dave Cogdill
July 7, 2008
Page 2

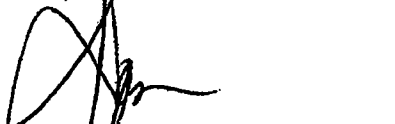
Water Management projects under Proposition 84 and additional funds available under Proposition 1E. We are asking the Legislature to appropriate these funds to DWR in order to provide money to local agencies to implement critical water resource projects. DWR is currently working to establish criteria and grant application processes for funding from these propositions. Consistent with the Governor's Executive Order, these criteria and processes should be streamlined and expedited so these funds reach local water districts and other local agencies as quickly as possible.


We appreciate your consideration of our request, which will lessen the impacts of the Statewide drought on the residents of Los Angeles County as well as residents throughout the State.

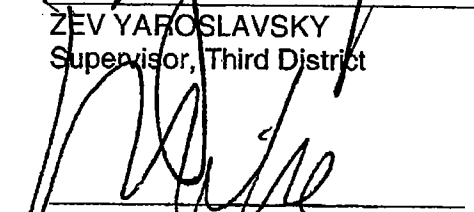
Sincerely,


VONNE B. BURKE
Chair of the Board
Supervisor, Second District


GLORIA MOLINA
Supervisor, First District


DON KNABE
Supervisor, Fourth District


ZEV YAROSLAVSKY
Supervisor, Third District


MICHAEL D. ANTONOVICH
Supervisor, Fifth District



SACHI A. HAMAI
EXECUTIVE OFFICER

COUNTY OF LOS ANGELES BOARD OF SUPERVISORS

KENNETH HAHN HALL OF ADMINISTRATION
500 WEST TEMPLE STREET, ROOM 383
LOS ANGELES, CALIFORNIA 90012
(213) 974-1411 • FAX (213) 620-0636

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YVONNE R. BURKE

ZEV YAROSLAVSKY

DON KNABE

MICHAEL D. ANTONOVICH

July 7, 2008

The Honorable Don Perata
Senate President pro Tempore
State Capitol, Room 205
Sacramento, CA 95814

Dear Senator Perata:

On behalf of the ten million residents living in Los Angeles County, we are writing to urge you to appropriate funds from Propositions 84 and 1E as quickly as possible due to the current water crises. California's water supply is experiencing drastic reductions that challenge local agencies' abilities to meet anticipated demands. These reductions are due to a Statewide drought in California, environmental impacts limiting deliveries from the State water project, and an eight-year drought in the Colorado River Watershed.

On June 4, 2008, Governor Schwarzenegger proclaimed a Statewide drought and issued Executive Order S-06-08 directing the California Department of Water Resources (DWR) and other State agencies to take specific actions to reduce the impacts of the drought and improve local agencies' abilities to meet anticipated demands.

The first directive contained within Executive Order S-06-08 orders DWR to:

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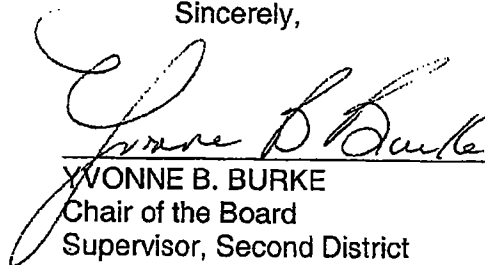
We support the recent directive given by the Governor to DWR. Los Angeles County has numerous programs and projects specifically intended to conserve water and reduce the use of water, including unfunded, ready-to-go projects submitted recently through the Integrated Regional Watershed Management Implementation Grant Program under Proposition 50. There is \$1 billion available for Integrated Regional

The Honorable Don Perata
July 7, 2008
Page 2

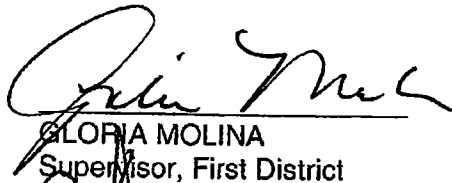
Water Management projects under Proposition 84 and additional funds available under Proposition 1E. We are asking the Legislature to appropriate these funds to DWR in order to provide money to local agencies to implement critical water resource projects. DWR is currently working to establish criteria and grant application processes for funding from these propositions. Consistent with the Governor's Executive Order, these criteria and processes should be streamlined and expedited so these funds reach local water districts and other local agencies as quickly as possible.

We appreciate your consideration of our request, which will lessen the impacts of the Statewide drought on the residents of Los Angeles County as well as residents throughout the State.

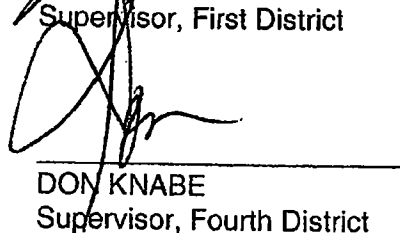
Sincerely,



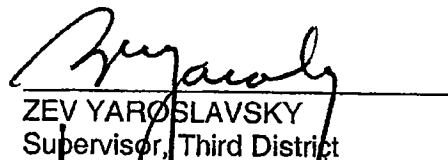
YVONNE B. BURKE
Chair of the Board
Supervisor, Second District



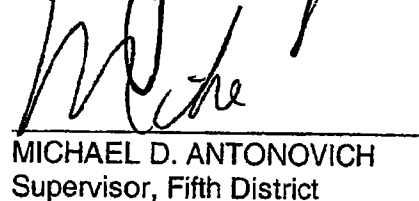
GLORIA MOLINA
Supervisor, First District



DON KNABE
Supervisor, Fourth District



ZEV YAROSLAVSKY
Supervisor, Third District



MICHAEL D. ANTONOVICH
Supervisor, Fifth District



SACHI A. HAMAI
EXECUTIVE OFFICER

COUNTY OF LOS ANGELES BOARD OF SUPERVISORS

KENNETH HAHN HALL OF ADMINISTRATION
500 WEST TEMPLE STREET, ROOM 383
LOS ANGELES, CALIFORNIA 90012
(213) 974-1411 • FAX (213) 620-0636

MEMBERS OF THE BOARD

GLORIA MOLINA

YVONNE B. BURKE

ZEV YAROSLAVSKY

DON KNABE

MICHAEL D. ANTONOVICH

July 7, 2008

The Honorable Michael Villines
Assembly Minority Floor Leader
State Capitol, Room 3104
Sacramento, CA 95814

Dear Assembly Member Villines:

On behalf of the ten million residents living in Los Angeles County, we are writing to urge you to appropriate funds from Propositions 84 and 1E as quickly as possible due to the current water crises. California's water supply is experiencing drastic reductions that challenge local agencies' abilities to meet anticipated demands. These reductions are due to a Statewide drought in California, environmental impacts limiting deliveries from the State water project, and an eight-year drought in the Colorado River Watershed.

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The Honorable Michael Villines

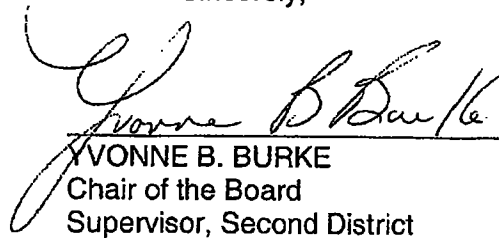
July 7, 2008

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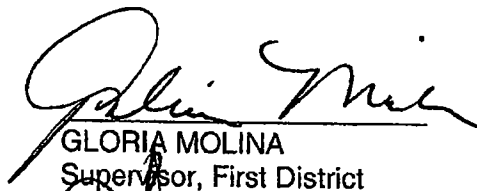
Water Management projects under Proposition 84 and additional funds available under Proposition 1E. We are asking the Legislature to appropriate these funds to DWR in order to provide money to local agencies to implement critical water resource projects. DWR is currently working to establish criteria and grant application processes for funding from these propositions. Consistent with the Governor's Executive Order, these criteria and processes should be streamlined and expedited so these funds reach local water districts and other local agencies as quickly as possible.

We appreciate your consideration of our request, which will lessen the impacts of the Statewide drought on the residents of Los Angeles County as well as residents throughout the State.

Sincerely,



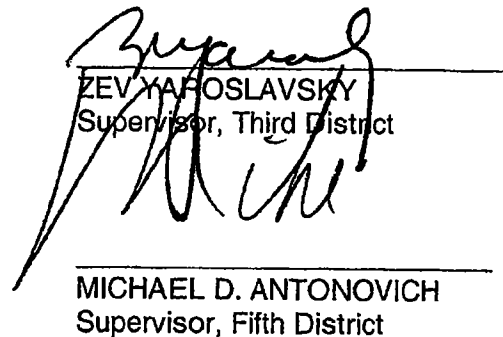
YVONNE B. BURKE
Chair of the Board
Supervisor, Second District




GLORIA MOLINA
Supervisor, First District



DON KNABE
Supervisor, Fourth District



ZEV YAROSLAVSKY
Supervisor, Third District



MICHAEL D. ANTONOVICH
Supervisor, Fifth District

COUNTY WATER CONSERVATION EFFORTS AND ACCOMPLISHMENTS

Under the direction of your Board and the Chief Executive Office, the Department of Public Works including the Los Angeles County Waterworks Districts, Los Angeles County Flood Control District, and other County departments have achieved numerous water conservation accomplishments and are engaged in many water conservation efforts that support the County's overall preparedness for droughts. The following is a summary of our ongoing efforts and recent accomplishments:

Department of Public Works

- **Office of Water Recycling** – Establishment of the County Office of Water Recycling on July 1, 2007, to assist in efforts to double the amount of recycled water used within the County, from 167,400 acre-feet to 333,600 acre-feet, by 2030. The Office is charged with implementing 27 recommendations governing recycled water activities. It is working in partnership with the Department of Parks and Recreation and Internal Services Department to retrofit numerous County facilities for use of recycled water for landscape irrigation. County facilities that currently use recycled water for landscape irrigation include Bonelli Regional County Park, Schabarum Regional County Park, Vector Control Offices in Santa Fe Springs, Norwalk County Library, and the County Recorder's Office in Norwalk.
- **Integrated Regional Water Management Planning** – Preparation of three Integrated Regional Water Management Plans (IRWMPs): the Antelope Valley IRWMP, the Greater Los Angeles County IRWMP, and Upper Santa Clara River Watershed IRWMP. The IRWMPs identify and prioritize projects that address water supply, water conservation, water quality, flood control, environmental resources, and planning for the next 20 to 30 years.
- **Spreading Grounds and Rubber Dams** – Operation of 26 spreading grounds and 10 rubber dams in the Los Angeles Basin that allow the percolation of stormwater runoff, imported water, and recycled water to underground aquifers, conserving an average of 280,000 acre-feet of water annually, an amount to sustain 560,000 families for one year.
- **Seawater Barriers** – Operation of three seawater barrier projects along the coastline to protect and conserve coastal groundwater from seawater intrusion. Also, we are working with the water community, including the Water Replenishment District and regulatory agencies, to ultimately utilize 100 percent recycled water for the barrier projects. Modernization of these facilities over the past 20 years has increased the average annual recharge of the aquifers they protect by 2,700 acre-feet at a cost of \$26 million.
- **Dams** – Operations at County dams are performed to conserve as much stormwater as possible. This stored water is later released and used to recharge the

groundwater aquifers. Since 1985 \$155 million has been spent in needed seismic retrofit project that have also increased the total available storage at the dams by 8,000 acre-feet. On average, this additional storage will translate into conservation of 40,000 acre-feet of water each storm season.

- Weather Modification (Cloud Seeding) – Reactivation of the Cloud Seeding Program was approved by your Board on June 10, 2008. Cloud seeding generators are used to release silver iodide into the air, which can increase the amount of rainfall from storm clouds by 10 to 15 percent. The additional rainfall is collected in our reservoirs and later transferred to our spreading grounds for recharge of underground aquifers.
- Smart Gardening Program – Administration of a Smart Gardening Program, developed in collaboration with the Department of Parks and Recreation, to promote environmental practices related to water and fire-wise gardening, composting, and grass recycling. For water-wise gardening, residents are taught to conserve water with proper selection of plants, proper irrigation, use of compost, installation of groundcover, and grouping plants with similar water needs (hydrozoning). The workshops are held at the Program's 11 Smart Gardening Learning Centers, typically located at County parks, and at off-site locations in coordination with cities.
- Flood Control District Capital Improvements – The following water conservation construction projects have recently been completed or are under construction.
 - San Gabriel River Rubber Dams (\$6.7 million) – Construction of two rubber dams, to allow for in-stream recharge. The project, which was partially funded by State grants and the Water Replenishment District, is completed.
 - Big Tujunga Dam Seismic Rehabilitation and Spillway Modifications (\$88.5 million) – An integrated resources management project that involves the placement of new concrete on the downstream face of the existing arch dam to create a thick-arch. The rehabilitation of the dam will provide an additional 4,500 acre-feet of water for downstream recharge and later extraction, in addition to providing downstream flood protection and flow releases to enhance habitat. The project, which is partially funded by the Federal Emergency Management Agency and Los Angeles Department of Water and Power, is under construction.
 - Hansen Spreading Ground Improvements (\$7.3 million) – Reconfiguration of spreading basin to increase storage capacity by 1,100 acre-feet. The construction contract has been awarded. This project is cost shared by the City of Los Angeles Department of Water and Power.

- Irwindale/Manning Spreading Grounds Interbasin Drain (\$1.4 million) – Construction of a drain from Irwindale Spreading Basin to Manning Pit to allow optimization of groundwater recharge. The construction contract has been awarded.
- Cooperative Agreements/Regional Partnerships – We continue to work in developing cooperative agreements with other local water management agencies to further advance water conservation, water recycling, and groundwater storage programs. Partnerships to date include Water Replenishment District of Southern California, Los Angeles City Department of Water and Power and West Basin Municipal Water District. The following projects are being pursued in partnership with the City of Los Angeles.
 - East Valley Recycling Project – Mayor Antonio Villaraigosa intends to renew efforts to deliver up to 25,000 acre-feet of highly treated recycled water from the Tillman Water Reclamation Plant to the County's Hansen Spreading Grounds for recharging the groundwater aquifers in the San Fernando Valley.
 - Tujunga Spreading Grounds Enhancement Project – Reconfiguration to increase capacity at the grounds, simplify operations, and improve data collection.
 - Pacoima Spreading Grounds Enhancement Project – Reconfiguration to increase capacity at the grounds, simplify operations, and improve data collection.
 - Sun Valley Watershed Management Project – Proposes 15 multiuse projects that will conserve an average of 8123 acre-feet of water annually. Additional benefits include 50-year flood protection, water quality improvement, recreational facilities and habitat restoration. Funding partners include the City of Los Angeles, State agencies, Federal agencies, and nongovernmental organizations. Total costs are estimated at \$270 million over a 20-year period.
- Los Angeles County Waterworks Districts – The Department of Public Works is responsible for the management of five County Waterworks Districts, serving the areas of Malibu, Topanga, Marina del Rey, Kagel Canyon, Val Verde, Acton, and the Antelope Valley, which are engaged in the following water conservation activities for its existing and new customers, as applicable.

- Implementation of Best Management Practices – Implementation of 14 Best Management Practices for water conservation specified in the California Urban Water Conservation Council's Memorandum of Understanding (MOU) regarding Urban Water Conservation in California. The Waterworks Districts became a signatory to the MOU in April 1996.
- Phased Water Conservation Plan – Established a Phased Water Conservation Plan, which was adopted by your Board on May 23, 1991, that can be implemented for a severe water shortage to reduce customer demands by up to 40 percent in 5 percent increments.
- Free Water Use Survey Program – Initiated a Free Water Use Survey Program for the Waterworks Districts' residential, commercial, industrial, institutional, and large-landscape customers to identify opportunities for water conservation. Approximately 3,200 surveys have been completed to date, resulting in an average of 10 percent reduction in water consumption for the participating customers.
- Tiered-Water Rates – Implemented tiered-water rate structures for Waterworks District Nos. 40, Antelope Valley, and 29, Malibu and the Marina del Rey Water System, together accounting for 95 percent of the Districts' customers, to encourage water conservation.
- Public Education – Implementation of a summer public education program consisting of 719 television ads, 816 radio announcements, 10 newspaper ads, 3 billboards, and regular press releases; a new customer rebate program for water-saving devices; partnerships and materials to promote the use of native plants; an ongoing program of participation in community events, which has reached more than 800 customers so far in 2008; publication of quarterly *Splash* newsletters sent to all the Districts' customers; and enhancement of our website, which receives more than 350 hits per month, with water conservation information.
- Aquifer Storage and Recovery – Implemented a Lahontan Regional Water Quality Control Board permitted Aquifer Storage and Recovery groundwater basin recharge program to inject up to 6,800 acre-feet of surplus treated State Water Project water annually.
- Optimization of Improved Water Use – Conservation of up to 5,000 acre-feet of groundwater annually by maximizing the use of surplus imported State Water Project water when available in-lieu of pumping groundwater.
- Recycled Water – Completed a Facilities Planning Report for a 38-mile recycled water backbone system and prepared environmental documents for the system; participated in the construction of 24,000 linear feet of 24-inch-diameter recycled water line in partnership with the

City of Lancaster; participated with the Cities of Lancaster and Palmdale to explore the use of recycled water for groundwater basin recharge; amended the Rules and Regulations of the Waterworks Districts to include provision for the use of recycled water; and negotiated a recycled water agreement with the County Sanitation Districts of Los Angeles County for the annual purchase of up to 13,500 acre-feet of recycled water.

- Water Supply Reliability Charges – Establishment of the Water Supply Reliability Charges, which were approved by your Board on May 25, 2005, to provide funding to improve the reliability of the Districts' water supplies. The charges include components for water banking, groundwater supply, and recycled water.
- In-Lieu Water Storage – Negotiated and executed an agreement, which was authorized by your Board on June 19, 2007, with the Antelope Valley-East Kern Water Agency, Palmdale Water District, and Antelope Valley State Water Contractors Association for the in-lieu storage of 420 acre-feet of State Water Project water.
- Regional Water Conservation Coalition – Participated in the establishment of the Antelope Valley Water Conservation Coalition that includes the Cities of Lancaster and Palmdale, Antelope Valley-East Kern Water Agency, Antelope Valley Building Industry Association, and other interested parties.
- Water Wasting Advisory Notice Program – Administration of a program to notify the District's customers of incidents of water wasting (i.e., broken sprinkler heads, irrigation runoff, etc.) and encourage water conservation.
- Water Conservation Customer Rebate Program – Established a Water Conservation Customer Rebate Program, approved by your Board on June 4, 2008, to provide financial incentives to the Districts' customers to purchase and install pre-approved products to improve their water-use efficiency. The Program includes rebates for installation of high efficiency clothes washers, ultra low flow toilets, dual flush toilets, waterless urinals, smart weather-based sprinkler controllers, and rotating sprinkler nozzles.
- Upper Amargosa Creek Recharge Project – Participation with the City of Palmdale in a project to design and construct five off-channel and two in-channel recharge basins to allow for storage of surplus State Water Project water when it is available.

Department of Parks and Recreation

- **Water and Environmental Planning Section** – In anticipation of the serious water conservation and water quality issues facing the region and County, the Department of Parks and Recreation developed a Water and Environmental Planning Section, which is working in collaboration with other County departments and outside agencies on the following: park-watershed planning, lake planning and management, stormwater management in parks, recycled/reclaimed water, and water conservation and alternative energy planning.
- **Water Conservation Task Force** – The Department of Parks and Recreation created a task force consisting of water purveyors (Metropolitan Water District, West Basin Water District, Central Basin Water District, Upper San Gabriel Valley Municipal Water District, Rowland Water District, and Antelope Valley Sanitation District), and the Department of Public Works (Office of Water Recycling). The goal of this group is to expand the Recycled Water Master Program to all County park facilities for 100 percent use of recycled water for irrigation.
 - **Water Conservation and Recycled Water Use** – Reduction in usage of potable water by converting facilities to recycled water for irrigation, utilizing 2,000 acre-feet of recycled water annually.
 - **Other County Parks Currently on Recycled Water** – Cerritos, Countrywood, Alondra, Del Aire, Lennox, Sorenson, Sunshine, Whittier Narrows Recreation Area, and Apollo.
 - **County Golf Courses Currently on Recycled Water** – Mountain Meadows, Diamond Bar, Lakewood, Victoria, Chester Washington, and Whittier Narrows Recreation Area Golf Course recycled water project is currently underway.
- **Expanded Use of Native and Drought-Tolerant Plants** – The Department of Parks and Recreation developed policies and procedures for the use of native and drought-tolerant plants to be implemented at County parks and recreational facilities. Most recently, native and drought-tolerant plants have been installed at Cerritos Regional Park and Pickens Parks. There are 23 County parks currently with drought-tolerant and/or native plant material.

The following additional water conservation efforts are in progress:

- Recycled Water Master Program – Development of a Countywide Recycled Water Master Program for County parks and golf facilities, the goal is to establish 100 percent use of recycled water for irrigation.
- Energy and Water Conservation Pilot Project – Development of one energy and water conservation pilot project that will serve as a model for other facilities and incorporate successful results into County Park and Facilities Design Guidelines and Standards.
- Multi-Benefit Projects – Development of four multibenefit projects (stormwater quality projects) in collaboration with the Department of Public Works.
- Evapotranspiration (ET) Irrigation Systems – Design of efficient ET irrigation systems for disadvantaged parks to comply with Assembly Bill No. 2717, the Water Smart California Landscape Ordinance for immediate and long-term water conservation, and incorporate into County Park and Facilities Design guidelines and standards.
- Case Study of Energy Conservation System – Perform a case study of various energy conservation systems (solar-powered internal lighting, solar heating, high efficiency indoor water devices, high efficiency outdoor water devices, drought-tolerant plant material, and stormwater retention systems) for the development of park standards and incorporate successful results into County Park and Facilities Design Guidelines and Standards.
- Stormwater Management System – Develop and design a stormwater management system for the most disadvantaged park that will incorporate stormwater runoff and/or "first flush" filter strips, retention basins, bioswales, dry wells, and/or cisterns for groundwater recharge and irrigation.
- Water Conservation Grant/Funding Applications Pending – Applied for grants available through Proposition 84, Metropolitan Water District, and Proposition 50 for water conservation projects at over 80 Department of Parks and Recreation facilities (Smart Irrigation Systems).
- Swimming Lakes – Implementing suction pumps to draw water from swimming lakes to chlorinate rather than purchasing potable water and installing waterless urinals at park facilities.
- Synthetic Soccer Fields – Implementing synthetic soccer fields which will result in a decrease in water use.

Department of Regional Planning

- **Drought-Tolerant Landscaping** – Preparation of an ordinance, with the Department of Public Works, that establishes minimum standards for the design and installation of landscaping using drought-tolerant and native plants that require minimum water and ensure that the County will continue to realize the benefits of landscaping that is appropriate to the particular project and the region's climate. The drought-tolerant landscape ordinance will reduce the need for imported water by 65 percent compared to conventional landscapes. Additionally, drought-tolerant landscaping is being incorporated for all County facilities with landscaping plans approved after February 15, 2007. To date, landscaping plans incorporating native or drought-tolerant plants have been approved for 37 County facilities.
- **Low Impact Development (LID)** – Preparation of the Ordinance, with the Department of Public Works that establishes minimum standards to manage stormwater and other urban runoff. LID aims to protect surface and groundwater quality, maintain the integrity of aquatic living resources and ecosystems, and preserve the physical integrity of receiving streams by controlling rainfall, stormwater, and other urban runoff at the source. Key design features include: reducing the amount of stormwater and urban runoff by providing onsite storage measures, maximizing permeable surfaces on a lot, disconnecting impervious surfaces to reduce runoff, and treating runoff by routing it through vegetation.
- **Green Building Program** – Preparation of a report, with the Department of Public Works, entitled *Green Building Standards for the Unincorporated Areas of Los Angeles County*, which provides guidance for the implementation of Leadership in Energy and Environmental Design (LEED) standards of similar requirements in the County's development standards for all appropriate industrial, commercial, and residential development.

Internal Services Department

Internal Services Department (ISD) provides in-house, contracted, and advisory services in the areas of alterations and improvements, facilities maintenance and operations, energy management and custodial and grounds maintenance services. ISD operates building systems and provides maintenance and repair services to over 200 County facilities consisting of approximately 21,000,000 square feet.

Current Water Conservation Measures – The measures listed below are standard procedures currently used by ISD to ensure water conservation.

- Monitor and maintain flush valves on existing toilets and urinals – Maintaining flush valves on a routine basis ensures that leaks are discovered quickly, thus reducing the amount of water wasted and ensure all valves operate properly.
- Maintain aerators and flow restrictions on facets – Repair or replacement of aerators and flow restrictions control the stream of water to prevent splashing and limit the amount of water used during hand washing.
- Monitor pumps and seals for leaks – Various types of pumps are used to provide domestic water to all plumbing fixtures and are used to circulate comfort heating and cooling water used for air conditioning. With proper maintenance, energy costs are reduced and leaks are repaired preventing wasted water and possible building damage.
- Service cooling towers to maintain maximum efficiency and float levels to prevent overflow – Cooling towers use water to transfer building heat to the atmosphere to maintain a comfortable environment of building. They work similar to a car radiator.
- Check water make-up meters on closed loop chilled and hot water systems for excessive water use – Make-up meters are used to measure the amount of water lost during equipment operation. Measuring the amount of water consumed can reveal hidden water leaks or equipment failure.
- Regular irrigation checks – Inspect irrigation system to ensure time clocks, control valves, and sprinkler heads are functioning properly for correct time of day and length of watering cycles for type of plants installed.
- Retro-Commissioning buildings to provide more efficient air conditioning systems – Retro-Commissioning is a systematic, documented process that identifies low-cost operational and maintenance improvements in existing buildings and brings the building systems that use heated and chilled water to optimal performance. Retro-commissioning typically focuses on energy-using equipment and optimizes existing system performance, rather than relying on major equipment replacement. It typically results in improved indoor air quality, comfort, controls, energy efficiency, and water conservation.
- Continually monitor water bills – Check for unusual spikes in water consumption indicating possible leaks or problems. Coordinate with County departments to promote ways to conserve water and detect water leaks, or excessive water consumption.

- Installing new water saving devices – Installing waterless and low-flow fixtures when replacing existing fixtures significantly reduces the amount of water used.
- Landscape with drought-tolerant plants and vegetation – The installation of drought-tolerant plants at county facilities is used when replacement of plants is required.
- Touch-less type faucets – Replace faucets with touch-less type when existing cannot be repaired. Touch-less type faucets limit the amount of water per use.
- Remodel Projects – Install touch-less faucets and waterless urinals in all remodel projects.

Proposed Conservation Measures – Items proposed for future improvements in conservation measures.

- Power Plant Modifications – Investigate power plant modifications for use of recycled water in make-up water. Make-up water is used to cool the power plants equipment.
- "Retro Commissioning" Program – Partner with Public Works' Sewer Maintenance Division and County Sanitation Districts of Los Angeles County to develop a "retro-commissioning" program for water and wastewater systems.
- Leadership in Energy and Environmental Design – Complete Leadership in Energy and Environmental Design Existing Building (LEED EB) studies, which include water conservation measures.
- Upgrade urinals and toilets – Replace flush type urinals with a low-flow or waterless and replace high-consumption toilets with a low-flow. By converting urinals to waterless and all toilets to low-flow in the Hall of Administration, the County will save approximately 378,840 gallons of water per month or more than 4.5 million gallons per year.
- Energy and Water Efficiency Program – Management of an Energy and Water Efficiency Program with support from multiple other departments to further reduce County facilities' energy and water consumption through the establishment of specific reduction targets. The Program includes initiatives for an Energy Management Program, Facility Retrofitting Program, County Purchasing Policy (P-1050), Integrated Regional Water Management Planning (Department of Public Works), and Recycled Water Task Force (Department of Public Works).



MINUTES OF THE BOARD OF SUPERVISORS
COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

Sachi A. Hamai, Executive Officer-
Clerk of the Board of Supervisors
383 Kenneth Hahn Hall of Administration
Los Angeles, California 90012

At its meeting held August 5, 2008, the Board took the following action:

17

The following item was called up for consideration:

The Acting Director of Public Works' recommendation to adopt a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors and cities to intensify water conservation efforts; direct all County departments to evaluate water usage and immediately implement conservation measures; urge local water purveyors and cities to accelerate and intensify public outreach campaigns; also urge cities to update and adopt water wasting ordinances and prepare for the enforcement of the ordinances, if necessary; and encourage County residents to follow ten easy tips to reduce their water usage.

Dean D. Efstathiou, Acting Director of Public Works, responded to questions posed by the Board.

Arnold Sachs addressed the Board.

After discussion, on motion of Supervisor Knabe, seconded by Supervisor Antonovich, unanimously carried, the Acting Director of Public Works' attached recommendation was adopted as amended directing the Acting Director of Public Works to report back to the Board on a monthly basis on the progress of water conservation efforts.

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Attachment

Copies distributed:

Each Supervisor
Chief Executive Officer
County Counsel
Acting Director of Public Works



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

February 5, 2009

IN REPLY PLEASE

REFER TO FILE: **WW-0**
A2874-6

TO: Each Supervisor

FROM: Gail Farber
Director of Public Works

A handwritten signature in black ink, appearing to read "Gail Farber", is written over the printed name and title.

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the sixth monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. A letter was sent to all 88 cities in the Los Angeles County on October 20, 2008, to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance established water conservation and waste prevention measures for unincorporated County areas. A letter was sent on December 30, 2008, to all water companies serving unincorporated County area residents to request that they inform their customers of the ordinance and encourage their customers' voluntary compliance with the ordinance's provisions.

In addition, the Waterworks Districts' Phased Water Conservation Plan has been updated and submitted for your Board's consideration on the February 24, 2009, Agenda.

Action No. 3 (90 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) are finalizing their water utility bill analysis to determine the effectiveness of recent conservation efforts to reduce Countywide water usage. At the same time, ISD is formatting and archiving this data utilizing ISD's Enterprise Energy Management Information System (EEMIS) to track water costs and consumption. EEMIS will facilitate future tracking and reporting using water bill information from all County departments. Due to normal billing cycles, the consumption results for water account billings through December 31, 2008, will not be available for reporting until late February or early March 2009. Following that report, updated reports will be provided to your Board on a regular basis. Preliminary water savings results for ISD-managed facilities indicate about a 6 to 7 percent reduction in water use for July through November 2008 as compared to the same period in 2006.

ISD commissioned a water savings study that focuses on water use for commercial building heating and cooling systems. Cooling water constitutes a large portion of the water use at these facilities. Substantial water savings can be achieved at many of these facilities by replacing older cooling water systems that require a continuous stream of water with newer systems that recirculate the cooling water. Cooling water recirculation systems have been installed at the Civic Center Heating and Refrigeration Plant and Peter J. Pitchess Honor Rancho Power Plant, two of the County's largest cooling-water-use facilities. Initial results from testing at these facilities indicate that water savings of approximately 15 percent (30 million gallons) can be achieved annually. Additional systems are scheduled for installation at other selected sites in early 2009.

The installation of cooling water recirculation systems currently represents the most economical and effective method to reduce water consumption at County facilities. As a result, ISD has requested \$500,000 in its Fiscal Year 2009-10 Energy Efficiency Projects budget request to install the systems at facilities throughout the County. In the event that the budget request is not approved, ISD plans to provide support to its

customer departments to fund implementation of the systems as part of their routine or extraordinary building maintenance budgets.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, representatives from the City of Los Angeles Department of Water and Power and the Metropolitan Water District of Southern California gave presentations on their available water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for the installation of water-saving devices. Facility managers from DPR, Beaches and Harbors, ISD, Community Development Commission, and the Sheriff and Fire Departments attended the meeting and indicated that they are installing water-saving devices for their facilities. A list of these water-saving devices will be included in a future report with the conservation measures recommended to gain an additional 10 percent water savings.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008.

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008.

Action No. 6 (95 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies.

The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee has completed its final report, which will be submitted to your Board by mid-February.

Action No. 7 (30 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (100 percent complete)

Instruct the Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly.

Each Supervisor
February 5, 2009
Page 5

If you have any questions regarding this matter, please call me or your staff may contact Adam Arika at (626) 300-3300.

DWP:dv

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cc: Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning



GAIL FARBER, Director

COUNTY OF LOS ANGELES

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ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

March 12, 2009

IN REPLY PLEASE

REFER TO FILE: **WW-0**
A2874-7

TO: Each Supervisor

FROM: Gail Farber
Director of Public Works

A handwritten signature in cursive script, appearing to read "Gail Farber", is written over the printed name and title.

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the seventh monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. A letter was sent to all 88 cities in the Los Angeles County on October 20, 2008, to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance established water conservation and waste prevention measures for unincorporated County areas. A letter was sent on December 30, 2008, to all water companies serving unincorporated County area residents to request that they inform their customers of the ordinance and encourage their customers' voluntary compliance with the ordinance's provisions.

Each Supervisor
March 12, 2009
Page 2

In addition, the updated Phased Water Conservation Plan (Plan) for the Los Angeles County Waterworks District Nos. 21, Kagel Canyon, 29, Malibu, and the Marina del Rey Water System; 37, Acton, and 40, Antelope Valley was approved by your Board on March 3, 2009. The updated Plan for the Los Angeles County Waterworks District No. 36, Val Verde, is expected to be submitted for your Board's consideration in late May

Action No. 3 (100 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) completed their water utility bill analysis and determined that recent conservation efforts have reduced Countywide water usage by 9.5 percent for the period of July 1, 2008, to December 31, 2008, as compared to the same period in 2006.

Public Works reduced its water usage by 22.2 percent with significant water savings achieved by retrofitting the cooling water system and installing weather-based irrigation controllers at its Alhambra Headquarters. DPR reduced its water usage by 9.0 percent through installation of weather-based irrigation controllers, waterless urinals, and drought-tolerant plants at 71 parks. Additionally, ISD achieved a water use reduction of 8.9 percent at ISD-managed facilities by educating facility managers and disseminating information on available water conservation rebate and incentive programs.

Attached is a report providing additional information on the water use reductions and conservation measures to reduce consumption by an additional 10 percent.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008.

Action No. 6 (100 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee submitted its final report to your Board on February 3, 2009.

Action No. 7 (30 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Action No. 8 (100 percent complete)

Instruct the Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300

DWP:dvt

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Attach.

cc. Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning

WATER CONSERVATION MEASURES BY COUNTY DEPARTMENTS

On August 5, 2008, your Board adopted a Resolution declaring a Countywide Water Supply and Conservation Alert and directing all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

Following is a summary of the multidepartmental effort to accomplish this goal.

Results of Water Conservation Measures Already Implemented

The Department of Public Works (Public Works), the Internal Services Department (ISD), and the Department of Parks and Recreation (DPR) completed their water utility bill analysis for the period of July 1, 2008, through December 31, 2008, to quantify the impact of recent conservation efforts to reduce Countywide water usage. Due to normal billing cycles, the consumption results for the water accounts through December 31, 2008, were not available for reporting until recently. Similar updated reports will continue to be provided to your Board on a regular basis until the current drought ends. Separately, ISD has nearly completed formatting and archiving this data utilizing ISD's Enterprise Energy Management Information System (EEMIS) to track water costs and long-term consumption as is done now for electricity and natural gas. EEMIS will facilitate future tracking and reporting using water bill information from all County departments, allowing departmental facility managers to independently view their historic utility usage and costs at any time.

The County has nearly 1,600 separately metered water accounts from 120 different water purveyors. Public Works, ISD, and DPR receive the water bills for all County facilities. In tracking County water usage during the last half of 2008 representatives of the three departments met regularly to monitor and assess the County's conservation effort. A coordinated process was developed to compare recent water usage for higher volume accounts to the usage during the same period of a baseline year. Fiscal Year 2006-07 was selected as the baseline year for comparison purposes because water usage patterns at that time best represent conditions prior to the current drought.

In order for DPR to have comparable data to evaluate a reduction in water consumption, several facilities were excluded from this reporting period including.

- Park facilities that were under major construction and not operating at normal capacity
- Park facilities with new amenities and improvements that added new water usage after 2006
- New park facilities added to DPR's system after 2006 that were excluded because there was no comparison data.

In an aggressive measure to reduce potable water consumption, DPR has been developing and implementing new water conservation projects and initiatives, which include SMART Irrigation Controllers at 71 parks, waterless urinals, split water metering, and installation of drought-tolerant plant material.

DPR is also in the process of implementing the Phase I Recycled Water Master Plan, which includes providing recycled water to Victoria and Pathfinder Parks and Los Amigos and Alondra Golf Courses within the next year

In summary, water conservation efforts for Public Works, ISD, DPR, and the entire County for the period of July 1, 2008, through December 31, 2008, as compared to the same period in 2006 resulted in the following savings.

	Savings (%)
Department of Public Works	22.2
Internal Services Department	8.9
Department of Parks and Recreation	9.0
Total for County	9.5

Additional Conservation Measures To Achieve Further Reductions

To assist each department in meeting the recommended water demand reduction goals, ISD developed guidelines and conservation measures that were distributed to County facilities managers in September 2008. Attached are the individual behavior modification tips (Attachment A) and facility hardware changes (Attachments B and C) that will, when implemented, be instrumental in further reducing water demands.

Last year, ISD commissioned a water savings study that focused on water use for commercial building heating and cooling systems. Cooling water use constitutes a large portion of the water consumed at these facilities. Substantial water savings can be achieved by replacing older cooling water systems that require a continuous stream of water with newer systems that recirculate the cooling water. Such systems have been installed at the Civic Center Heating and Refrigeration Plant and Peter J. Pitchess Honor Rancho Power Plant, two of the County's largest cooling-water-use facilities, and at Public Works' Alhambra Headquarters. Initial results from testing at these facilities indicate that water savings of approximately 15 percent (30 million gallons) can be achieved annually. Additional systems are scheduled for installation at other selected sites in 2009.

The installation of cooling water recirculation systems currently represents the most economical and effective method to reduce water consumption at County facilities. As a result, ISD has requested \$500,000 in its Fiscal Year 2009-10 Energy Efficiency Projects budget request to install the systems at facilities throughout the County. In the event that the budget request is not approved, ISD plans to provide support to its

customer departments to fund implementation of the systems as part of their routine or extraordinary building maintenance budgets.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, representatives from the City of Los Angeles Department of Water and Power and the Metropolitan Water District of Southern California gave presentations on their available water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for the installation of water-saving devices. Rebate amounts and eligibility vary from area to area, so a check with the water supplier is necessary prior to the start of any modification. Facility managers from various departments have indicated that installations of water-saving devices in their facilities are proceeding

10 EASY TIPS TO REDUCE WATER CONSUMPTION

1. **Shorten your watering cycles.** Up to 70 percent of residential water use goes to maintaining our yards. Taking 1 minute off a 10-minute cycle saves 10 percent!
2. **Check your sprinkler system.** Do a weekly check for broken or clogged sprinkler heads and replace them right away. Make sure you are watering your yard and not the driveway or sidewalk.
3. **Fix those leaks.** Just a drip can waste more than 10,000 gallons per month. A leaking flapper on a toilet also increases flows at the water treatment plant.
4. **Plant native species or drought-tolerant plants.** Many of the lawns and plants we use are not intended for the unique climate in Southern California.
5. **Use a broom instead of a hose.** Sweeping up rather than hosing off leaves or grass clippings not only saves water, it reduces runoff.
6. **Get an adjustable hose nozzle for outdoor use.** With one of these you can adjust the spray to meet your needs. A hose running for 5 minutes uses the same amount of water as a 20-minute shower.
7. **Eliminate runoff.** Runoff could mean your lawn needs aeration. When you aerate your lawn, you give the water somewhere to go besides down the storm drain.
8. **Take shorter showers.** Cutting 2 minutes off your shower time can save 600 gallons a month for a family of 4. If you change the showerhead to a water-efficient model, you could save even more.
9. **Turn off the water** while you brush your teeth or shave.
10. **Wash only full loads of laundry or dishes.** Waiting until you have a full load can save you up to 20 gallons for the same amount of clean clothes.

Internal Services Department Water Conservation Measures

Internal Services Department (ISD) provides in-house, contracted, and advisory services in the areas of alterations and improvements, facilities maintenance and operations, energy management, and custodial and grounds maintenance services. ISD operates building systems and provides maintenance and repair services to over 200 County facilities consisting of approximately 21,000,000 square feet.

Current Water Conservation Measures – The measures listed below are standard procedures currently used by ISD to ensure water conservation

- Monitor and maintain flush valves on existing toilets and urinals – Maintaining flush valves on a routine basis ensures that leaks are discovered quickly, thus reducing the amount of water wasted and ensure all valves operate properly
- Maintain aerators and flow restrictors on faucets – Repair or replacement of aerators and flow restrictors control the stream of water to prevent splashing and limit the amount of water used during hand washing.
- Monitor pumps and seals for leaks – Various types of pumps are used to provide domestic water to all plumbing fixtures and are used to circulate comfort heating and cooling water used for air conditioning. With proper maintenance, energy costs are reduced and leaks are repaired preventing wasted water and possible building damage.
- Service cooling towers to maintain maximum efficiency and float levels to prevent overflow – Cooling towers use water to transfer building heat to the atmosphere to maintain a comfortable environment of a building. They work similar to a car radiator
- Check water make-up meters on closed loop chilled and hot water systems for excessive water use – Make-up meters are used to measure the amount of water lost during equipment operation. Measuring the amount of water consumed can reveal hidden water leaks or equipment failure.

Current Water Conservation Measures Continued

- Regular irrigation checks – Inspect irrigation system to ensure time clocks, control valves, and sprinkler heads are functioning properly for correct time of day and length of watering cycles for type of plants installed.
- Retro-commissioning buildings to provide more efficient air conditioning systems – Retro-commissioning is a systematic, documented process that identifies low-cost operational and maintenance improvements in existing buildings and brings the buildings systems that use heated and chilled water to optimal performance. Retro-commissioning typically focuses on energy-using equipment and optimizes existing system performance, rather than relying on major equipment replacement. It typically results in improved indoor air quality, comfort, controls, energy efficiency, and water conservation
- Continually monitor water bills – Check for unusual spikes in water consumption indicating possible leaks or problems. Coordinate with County departments to promote ways to conserve water and detect water leaks or excessive water consumption.
- Installing new water-saving devices – Installing waterless and low-flow fixtures when replacing existing fixtures significantly reduces the amount of water used.
- Landscape with drought-tolerant plants and vegetation – The installation of drought-tolerant plants at County facilities is used when replacement of plants is required
- Replace faucets with touch-less type when existing cannot be repaired – Touch-less type faucets limit the amount of water per use
- Install touch-less faucets and water-less urinals in all remodel projects.

Proposed Conservation Measures – Items proposed for future improvements in conservation measures.

- Investigate power plant modifications for use of recycled water in make-up water
– Make-up water is used to cool the power plant's equipment.
- Partner with Public Works Wastewater Division and Sanitation Districts to develop a "retro-commissioning" program for water and wastewater systems.
- Complete Leadership in Energy and Environmental Design Existing Building (LEED EB) studies, which include water conservation measures.
- Upgrade urinals and toilets – Replace flush-type urinals with low-flow or waterless and replace high-consumption toilets with low-flow. By converting urinals to waterless and all toilets to low-flow in the Hall of Administration, the County will save approximately 378,840 gallons of water per month or more than 4.5 million gallons per year

WATER USE – SLOWING THE FLOW

Most everyone who lives and works in Southern California is aware that we are having a dry spell again. California's extensive water supply infrastructure is designed to mitigate the effect of short-term dry periods for most water users. However, this year, California and the southwest is experiencing a supply shortage.

No one knows when this current drought will end. However, historically, droughts exceeding three years are relatively rare in Northern California, the source of much of the State's developed water supply.

Now, since the Governor has proclaimed a Statewide drought and the Los Angeles County Board of Supervisors has declared a Countywide Water Supply and Conservation alert, all County departments must pull together to reduce demands on our water reserves. The Board has directed each department to immediately implement conservation measures to reduce consumption by 10 percent by December 31, 2008, and recommend measures to reduce consumption by an additional 10 percent.

Since the first 10 percent reduction needs to take place this year, all departments must be proactive in their conservation efforts.

The following is a list of conservation measures each department can implement to initiate water savings at County facilities that will help in reaching the requested 20 percent savings target.

No Cost/Low Cost. Each department needs to educate staff to reduce water usage at facilities through an awareness campaign urging that, individually, we all can make a difference. Hardware changes such as low-flow shower heads and faucets, coupled with responsible-use habits, will lead to effective conservation and real water savings. Additionally, we can --

- Check facility for leaks and repair
- Encourage employees to conserve and to report water waste.
- Instruct landscape maintenance staff to reduce water use by repairing leaks, adjusting or replacing sprinkler heads to minimize overspray, adjust the sprinkler timer seasonally or replace timer with a smart controller
- Eliminate hosing down of walkways and driveways.
- Retrofit restrooms with self-closing faucets.
- Install water-saving faucet aerators in all restrooms.

Low-flow faucets. A standard lavatory sink faucet has a flow rate of 2.5-5 gallons per minute (gpm). Redesigned low-flow faucets have reduced this flow rate to 1.5-2.5 gpm while maintaining an adequate flow rate for hand washing. The design of the aerator installed in the outlet has made the faucets so successful. These aerators mix air into the water as it leaves the faucet, reducing both the flow and the amount of splashing, while increasing wetting efficiency

Savings.	40 percent
Cost:	Less than \$50/unit

Low-flow shower heads. These fixtures, similar to low-flow toilets, had to go through several design generations before they produced acceptable performance. Today's generation of low-flow showerheads have reduced flow rates, from as high as 7.5 gpm to less than 2.5 gpm. Since the units reduce the flow of hot water, they generate additional energy savings in water heating.

Savings:	50 percent or more
Cost:	Less than \$100/unit

Low-flow urinals. Urinals, like toilets, use large amounts of water. Before the advent of low-flow models, many urinals required 2-3 gallons of water per flush. Today's low-flow models all require less than 1 gallon per flush. Although designing a low-flow urinal did not present the same problems that manufacturers experienced with low-flow toilets, design changes were required in order to develop a unit that performed successfully. When coupled with a touchless, automatic control valve, water savings produced by low-flow urinals is even greater.

Savings.	50 to 70 percent
Cost:	Less than \$500/unit

Low-flow toilets. Toilets are the single largest users of water in many facilities. One flush of each standard toilet uses 3.5-5.5 gallons of water. By contrast, today's low-flow units require 1.5 gallons per flush.

Early generation units were plagued with operation and maintenance problems, giving low-flow units a bad reputation. Today's units have been completely reengineered for operation under low-flow conditions. Redesigned water inlets, traps, and directing jets eliminate the need to flush twice, a common complaint concerning the operation of early low-flow models.

Savings.	60 to 70 percent
Cost:	\$1,500/unit

Touchless controls. Touchless controls for restroom faucets have been widely promoted as a means of improving hygiene in restrooms. An infrared sensor

detects a user's hands under the faucet and turns on the water. Removing the hands turns off the water flow. Unlike timed and other automatic controls, touchless controls limit water flow. They also promote water conservation for toilets and urinals. By automatically flushing the units after use, automatic controls prevent users from overflushing.

Savings: 50 percent or more
Cost: \$1,755/unit

Waterless urinals. The newest addition to water-conserving devices is the waterless urinal. Applicable to both new construction and retrofits, the units operate without water or a flush valve. To form a barrier that prevents odors from entering the restroom, the urinals use an internal trap filled with a liquid that is lighter than urine. In a typical application, this urinal can save up to 44,000 gallons of water annually

Savings: 100 percent
Cost: \$2,580/unit

Point-of-use water heaters. Traditional building designs rely on a central water-heating system. A centrally located boiler generates hot water, which is distributed through insulated piping. Larger buildings use circulation pumps and large central storage tanks to improve system performance.

Systems designed to generate hot water at the point of use employ multiple, smaller water heaters located throughout a facility. Generating hot water at the point of use reduces distribution losses and, just as importantly, water requirements. When hot water is generated in a central system, even in circulating systems, water must be run for a few seconds before hot water is available to the user. Point-of-use water heaters eliminate this waste of water.

Savings: 50 percent or more
Cost: Greater than \$2,500/unit

Mechanical systems. One area that managers too often overlook when implementing a water-conservation program is a building's mechanical systems. Building boilers and cooling towers have significant requirements for water use that managers must consider

Both boilers and cooling towers use automatic valves to maintain water levels to keep contaminants within acceptable concentrations and to make up for water lost from the system. Controls that operate properly minimize water use, but control valves that stick or otherwise fail to operate properly use large volumes of water in a very short period of time. Balancing water quality saves water and energy, optimizes the use of water-treatment chemicals, reduces air and

wastewater emissions, and extends equipment life. Rebates up to \$3,000 are available for installing cooling tower pH controllers.

Managers must ensure that technicians inspect all water-using mechanical systems daily to ensure their proper operation.

Savings:	Up to 40 percent or as much as 800,000 gallons
Cost:	ISD estimates available

Maintenance issues

While water-conserving devices are low-maintenance items, they cannot simply be installed and forgotten. Technicians should check all units regularly and make periodic adjustments to flow-control devices.

Automatic flow controls require battery replacement every one to two years because dirt and contaminants in the water system can easily clog the small openings in flow-control devices.

Managers need to establish a schedule for inspecting and testing all water-conserving devices. By setting up the program as the devices are installed, managers can ensure that the program will achieve its greatest potential.

Utility Incentives and Other Support

When evaluating the potential for water savings in any facility, remember that financial assistance or incentives are available from many utilities to encourage customer conservation. Attached are lists of the current cash rebates available for installing water saving technologies from the Los Angeles Department of Water and Power (LADWP) and the Metropolitan Water District of Southern California (MWD). Although there are usually labor costs for installation, faucet aerators and low-flow shower heads are available free from many water suppliers.

Saving water is more important than ever, and ISD wants to help the County in reaching its goal of 15 to 20 percent reduction in overall water demand. Should your department have any questions regarding any of the conservation measures mentioned, assistance evaluating incentive availability or help with installation, please contact ISD's Facilities Operations Service at (323) 267-2105. Also, go to green.lacounty.gov, LA County's Energy and Environmental website for information on energy and water-efficiency policies and programs.

ISD will be monitoring County water usage and will report to the Board later this year on the savings achieved. Included in this report will be the steps being taken to reach the long-term goal of 15 percent to 20 percent reduction in water demand.

This drought will impact all of us so it is vitally important that we work together to minimize its impacts.

Cash Rebates

for Commercial, Industrial and Institutional Water Customers of the MWD

Plumbing Fixtures:

- Ultra Low Flush Toilets (1.6 gpf or less) \$135
(1.6 gpf replacing existing toilet or 3.5 gpf or more)
- High Efficiency Toilets (Dual Flush, or 1.28 gpf or less) \$165
(1.28 gpf or less replacing existing toilet of 3.5 gpf or more)
- High Efficiency Toilet Upgrade \$30
(three (3) gpf or less replacing toilet of 3.5 gpf to 1.28 gpf)
- Zero and Ultra Low Water Urinals \$400
(0.25 gpf or less replacing existing urinal of 3.5 gpf or more)
- Zero Water Urinal Upgrade/New Construction \$120
(0.25 gpf or less replacing existing urinal of 3.5 gpf)
- High-Efficiency Urinals \$200
(0.25 gpf or less replacing existing urinal of 3.5 gpf or more)
- High Efficiency Urinal Upgrade/New Construction \$60
(0.25 gpf or less replacing existing urinal of 3.5 gpf)

Food Equipment:

- Pre-Rinse Spray Heads \$60
- Connectionless Food Steamers \$485
per compartment

HVAC Equipment:

- Cooling Tower Conductivity Controllers \$625
- pH / Conductivity Controllers \$1,900

Medical Equipment:

- X-Ray Film Processor Recirc. System \$3,120
- Steam Sterilizer Retrofits \$1,900
- Dry-Vacuum Pumps \$125
per 0.5 HP

Cleaning Equipment:

- High Efficiency Clothes Washers \$210
(Coin and card operated)
- Pressurized Waterbrooms \$150

APPLICATION ENCLOSED

ATTACHMENT C-1

It's Time to Get Serious About Saving Water

X-Ray Machines

Urinals

Washers

pH Controller

Toilets

Waterbrooms

Businesses account for about one-third of the water used in our community. Some businesses use water only for sanitary purposes, while others irrigate to maintain attractive landscapes. Many companies use large amounts of water in different ways to develop products and to provide services.

The Metropolitan Water District is committed to helping businesses use water more efficiently in their facilities and in their processes.

Mail To:

Save Water - Save A Buck Rebate Program
P.O. Box 786, El Segundo, CA 90245

1-877-728-2282 or Fax to (310) 414-8820

Rebates vary by water agency and are subject to change. Rebate available to commercial customers served by the Metropolitan Water District's Family of Southern California Water Agencies.

For more information on our rebate program, log on to: www.bewaterwise.com

Click the Save A Buck icon

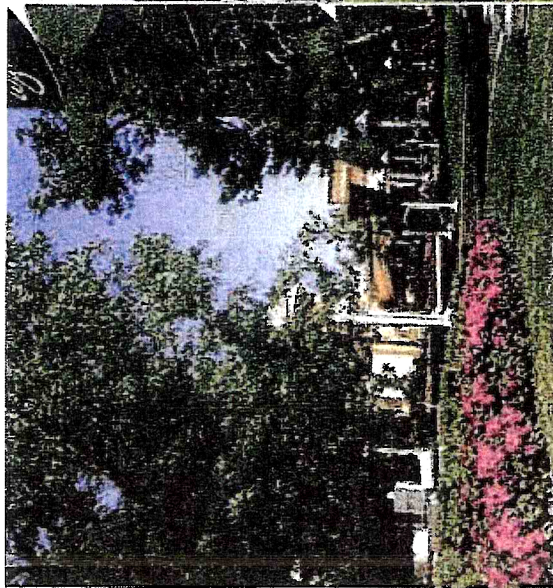


SAVE WATER
SAVE A BUCK

It's **EASY** to participate.
1-877-728-2282

www.bewaterwise.com

It's **EASY** to participate.
1-877-728-2282



APPLICATION ENCLOSED

ATTACHMENT C-2

It's Time to Get Serious About Saving Water

Now is the time to consider replacing your grass with new Synthetic Turf.

A great alternative for both small and large landscapes, wherever grass is currently used, Synthetic Turf is becoming increasingly popular for sports fields, golf courses, parks and public spaces, as well as many commercial uses.

The advantages of Synthetic Turf are wide-ranging. In addition to the minimal maintenance required, a Synthetic Turf surface:

- Requires no water
- Is aerthetically pleasing all the time—fresh cut appearance
- Needs no chemicals or fertilizer
- Never needs mowing or insecticides
- Can be cleaned—unlike mulch and shredded rubber
- Is safe—no more buried glass or other harmful objects

Over time, Synthetic Turf saves owners time, money, hassle and worry. Once installed, this synthetic surface continues to provide return on investment year after year all year long.

Synthetic Turf

\$0.30 REBATE per square foot
\$13,000 per acre
 no minimum - no maximum
 retrofits or new construction
 must replace irrigated area

Mail To:

Save Water - Save A Buck Rebate Program
 P.O. Box 786, El Segundo, CA 90245

1-877-728-2282 or Fax to (310) 414-8820

Rebates vary by water agency and are subject to change. Rebate available to commercial customers served by the Metropolitan Water District's Family of Southern California Water Agencies. **Update**

For more information on our rebate program, log on to: www.bewaterwise.com **1-877-728-2282**

Click the Save A Buck icon



It's **EASY** to participate. **BUCK**

1-877-728-2282

www.bewaterwise.com

Rebates on
Synthetic Turf for
 Commercial Outdoor Landscaping

Save **TIME**, Save **WATER**,
 Save **MONEY**
 and Reduce Wasteful Run-Off!

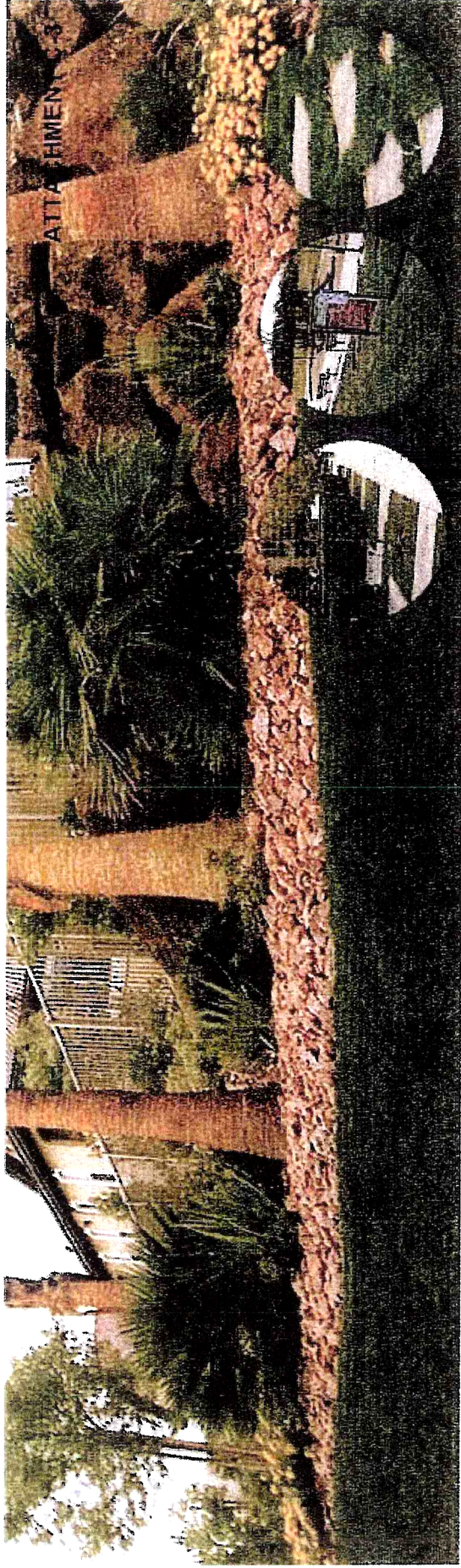
It's **EASY** to participate.

1-877-728-2282

www.bewaterwise.com



SAVE WATER
SAVE A BUCK



The newest Synthetic Turf looks and feels great

Today's Synthetic Turf systems are solid, reliable, durable and deliver the kind of form and function that can enhance any project. The look and feel, color and texture of some of the new generation of Synthetic Turf looks so close to real, that it has gained acceptance for a wide variety of applications.

Synthetic Turf is ideal for many landscape uses

Driven by need (low maintenance, drought tolerant, high traffic, water conserving), Synthetic Turf is now being adopted for use as more than a spot surface amenity—it has now become another landscape option for both small and large irrigated areas. The use of Synthetic Turf can also enhance and extend the livable area of residential and commercial properties.

A GREEN solution for water conservation

Synthetic Turf is the perfect solution for keeping landscapes green and saving water. Too, today's Synthetic Turf is specially designed for a variety of uses including residential and commercial landscaping. The newest Synthetic Turf features a softer, longer blade to create the look and feel of real grass.

As a result of low rain fall and limited water supplies, California businesses should reduce their water usage wherever possible. Conserving water is a major initiative to which everyone can contribute. So as well as providing an instant and constant green lawn during times of drought, Synthetic Turf can help save businesses thousands of dollars and save thousands of gallons of water as well.

Easy on the environment, easy on the eyes and easy underfoot, Synthetic Turf is the easy answer to keeping lawn areas green without water.

Synthetic Turf applications are many...

- Commercial Landscapes
- High Traffic Areas
- Playgrounds
- Commercial Common Areas
- Parks and Recreation
- Driving Ranges
- Roadways and Medians

The Goal is to SAVE WATER!

Synthetic Turf

\$0.30 REBATE per square foot

\$13,000 per acre

no minimum - no maximum
retrofit or new construction
must replace irrigated area

It's Time to Get Serious about Saving Water



Conservation Rebates for Business & Multi-Family Customers

Description	Retrofit Rebate Amount	New Construction Rebate Amount
High Efficiency (1.28 gpf*) Toilet: replacing ULF** Toilet	\$50	\$50
High Efficiency Toilet: replacing non-ULF Toilet (≥3.5 gpf)	\$300	\$50
Ultra-Low-Flush** Toilet Commercial/Multifamily***	\$200/\$120*	\$0
High Efficiency (0.0-0.25 gpf) Urinal: retrofit replacing ≥1.5 gpf	\$500	
High Efficiency (0.0-0.25 gpf) Urinal: retrofit replacing <1.5 gpf	\$250	\$250
High Efficiency (0.26-0.50 gpf) Urinal: retrofit replacing ≥1.5 gpf	\$400	
High Efficiency (0.26-0.50 gpf) Urinal: retrofit replacing <1.5 gpf	\$200	\$200
Cooling Tower pH/Conductivity Controller	\$3,000	\$3,000
Cooling Tower Conductivity Controller	\$625	\$625
Steam Sterilizer Retrofit	\$2,300/Device	\$2,300/Device
Connectionless Food Steamer	\$600/Compartment	\$600/Compartment
X-Ray Processor Recirculating System	\$4,400	\$4,400
Dry Vacuum Pump (max 2.0 HP)	\$125/Horsepower	\$125/Horsepower
High Efficiency Commercial Clothes Washer (coin and card operated)	\$430	\$430
Large Rotary Nozzle Retrofit	\$13/head (8 head minimum)	\$13/head (8 head minimum)
Weather-Based Irrigation Controller	\$1,000/Acre	\$1,000/Acre
Rotating Sprinkler Nozzle for Irrigation	\$5/Nozzle (25 nozzle minimum)	\$5/Nozzle (25 nozzle minimum)
Pre-rinse self-closing spray head	\$60	\$60
Water Broom	\$150	\$150

Toilet & urinal installations require a L.A. Dept of Building & Safety permit. Call (888) 524-2845 for plumbing permit information

*gpf - gallons per flush

**ULF - Ultra Low Flush 1.6 gallons per flush

Call 877-728-2282 or www.ladwp.com/cwr

***Multifamily customers must install a SPS certified toilet. List can be found at <http://pld.lapmo.org/> (go to "VIEW LADWP LISTINGS")
www.mwdsavesbruck.com/rebates.htm

Updated 11/15/2007



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

April 16, 2009

IN REPLY PLEASE

REFER TO FILE: **PJ-2**
A2874F

TO: Each Supervisor

FROM: Gail Farber *Gail Farber*
Director of Public Works

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the eighth and final monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008. As indicated in our previous report (attached), all of the action plans were 100 percent complete except for the following two:

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance established water conservation and waste prevention measures for unincorporated County areas. A letter was sent on December 30, 2008, to all water companies serving unincorporated County area residents to request that they inform their customers of the ordinance and encourage their customers' voluntary compliance with the ordinance's provisions.

In addition, the updated Phased Water Conservation Plan (Plan) for the Los Angeles County Waterworks District Nos. 21, Kagel Canyon; 29, Malibu, and the Marina del Rey Water System; 37, Acton; and 40, Antelope Valley was approved by your Board on March 3, 2009. The updated Plan for the Los Angeles County Waterworks District No. 36, Val Verde, is scheduled to be submitted for your Board's consideration in May 2009.

Action No. 7 (100 percent complete)

Direct the Chief Executive Office, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

Working with the Chief Executive Office, Department of Parks and Recreation, and Internal Services Department, Public Works has prepared a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds. This includes a set of guidelines that will be followed on all future projects to: 1) maximize the use of recycled water; 2) assure use of best practices and conformance with all applicable regulations; and 3) assure that water conservation is a key element in the planning of all County projects.

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300 or David Howard at (626) 300-2300.

DPW:njc

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Attach.

cc: Chief Executive Office (William T Fujioka, Lari Sheehan, Jan Takata)
Executive Office
Department of Beaches and Harbors
County Counsel
Fire Department
Internal Services Department
Department of Parks and Recreation
Department of Public Health
Department of Regional Planning
Sheriff



GAIL FARBER, Director

COUNTY OF LOS ANGELES

DEPARTMENT OF PUBLIC WORKS

"To Enrich Lives Through Effective and Caring Service"

900 SOUTH FREMONT AVENUE
ALHAMBRA, CALIFORNIA 91803-1331
Telephone: (626) 458-5100
<http://dpw.lacounty.gov>

ADDRESS ALL CORRESPONDENCE TO:
P.O. BOX 1460
ALHAMBRA, CALIFORNIA 91802-1460

March 12, 2009

IN REPLY PLEASE

REFER TO FILE: WW-0
A2874-7

TO: Each Supervisor

FROM: Gail Farber
Director of Public Works

A handwritten signature in cursive script, appearing to read "Gail Farber", is written over the printed name and title.

BOARD MOTION OF AUGUST 5, 2008, AGENDA ITEM 17 MONTHLY REPORT ON PROGRESS OF WATER CONSERVATION EFFORTS

On August 5, 2008, your Board directed the Acting Director of the Department of Public Works (Public Works) to report monthly on the progress of the County's multidepartmental water conservation efforts. The following is the seventh monthly report that summarizes the progress of a collaborative effort to implement the water conservation and drought response actions approved by your Board on July 1, 2008.

Action No. 1 (100 percent complete)

Declare a Countywide Water Supply and Conservation Alert.

On August 5, 2008, your Board adopted a resolution declaring a Countywide Water Supply and Conservation Alert urging County residents, businesses, local water purveyors, and cities to intensify water conservation efforts. A letter was sent to all 88 cities in the Los Angeles County on October 20, 2008, to inform them of the Alert and request their support to intensify water conservation efforts.

Action No. 2 (100 percent complete pending adoption by your Board)

Update and adopt a water wasting ordinance for unincorporated County areas and the Waterworks Districts' Phased Water Conservation Plan.

A water wasting ordinance was approved by your Board on October 7, 2008. The ordinance established water conservation and waste prevention measures for unincorporated County areas. A letter was sent on December 30, 2008, to all water companies serving unincorporated County area residents to request that they inform their customers of the ordinance and encourage their customers' voluntary compliance with the ordinance's provisions.

Each Supervisor
March 12, 2009
Page 2

In addition, the updated Phased Water Conservation Plan (Plan) for the Los Angeles County Waterworks District Nos. 21, Kagel Canyon, 29, Malibu, and the Marina del Rey Water System; 37, Acton; and 40, Antelope Valley was approved by your Board on March 3, 2009. The updated Plan for the Los Angeles County Waterworks District No. 36, Val Verde, is expected to be submitted for your Board's consideration in late May.

Action No. 3 (100 percent complete)

Direct all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

The Internal Services Department (ISD), Public Works, and the Department of Parks and Recreation (DPR) completed their water utility bill analysis and determined that recent conservation efforts have reduced Countywide water usage by 9.5 percent for the period of July 1, 2008, to December 31, 2008, as compared to the same period in 2006.

Public Works reduced its water usage by 22.2 percent with significant water savings achieved by retrofitting the cooling water system and installing weather-based irrigation controllers at its Alhambra Headquarters. DPR reduced its water usage by 9.0 percent through installation of weather-based irrigation controllers, waterless urinals, and drought-tolerant plants at 71 parks. Additionally, ISD achieved a water use reduction of 8.9 percent at ISD-managed facilities by educating facility managers and disseminating information on available water conservation rebate and incentive programs.

Attached is a report providing additional information on the water use reductions and conservation measures to reduce consumption by an additional 10 percent.

Action No. 4 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature urging the State to expedite the award of bond funds from Propositions 84 and 1E to local agencies, including the County of Los Angeles.

A five-signature letter was sent to the Governor and leadership of the Legislature on July 7, 2008.

Action No. 5 (100 percent complete)

Send a five-signature letter to the Governor and leadership of the Legislature expressing support for the Governor's Delta Vision, which provides a comprehensive, sustainable management plan for the Delta that includes conveyance, expanded storage, ecosystem restoration, and conservation.

A five-signature letter was sent to the Governor and leadership of the Legislature on September 12, 2008.

Action No. 6 (100 percent complete)

Direct the Chief Executive Officer (CEO) through the Office of Recycled Water and the Energy and Environmental Policy Team in collaboration with ISD, Public Works, DPR, Fire, Sheriff, and other appropriate departments to develop a recycled, nonpotable water infrastructure plan for County facilities; the planning process to include consultation with appropriate water purveyors and waste water treatment agencies. The recycled water infrastructure plan should establish priorities based upon amount of potable water saved and include a funding analysis and recommendations.

The Recycled Water Infrastructure Implementation Committee submitted its final report to your Board on February 3, 2009.

Action No. 7 (30 percent complete)

Direct the CEO, working with the Energy and Environmental Policy Team and with input from water conservation specialists to ensure utilization of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development, to develop a water conservation policy applicable to retrofit, refurbishment, and new construction of County facilities and grounds.

The CEO, Public Works, DPR, and ISD are collaboratively preparing a checklist of Best Management Practices, including Leadership in Energy and Environmental Design and Low Impact Development that will be used to ensure that appropriate water conservation practices are incorporated in projects for the retrofit, refurbishment, and new construction of County facilities and grounds.

Each Supervisor
March 12, 2009
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Action No. 8 (100 percent complete)

Instruct the Director of Public Works and the Director of Planning to consult with the various water agencies that provide water services to County unincorporated areas, and report back to your Board in 30 days requesting information on how the drought may impact the land development review process for both discretionary and ministerial applications, and what your Board can expect regarding future actions by water agencies on pending development projects in the unincorporated area.

Public Works and DPR sent a Drought Impact Questionnaire to unincorporated County area retail water purveyors requesting information on how the drought may impact the land development review process. A report summarizing the responses to the Questionnaire was completed on October 9, 2008, and sent to all Board offices.

Updates on these Action Items are also available on the Countywide Energy and Environmental website at <http://www.green.lacounty.gov>, which will be updated regularly

If you have any questions regarding this matter, please call me or your staff may contact Adam Ariki at (626) 300-3300

DWP:dvt

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Attach.

cc. Executive Office, Board of Supervisors
County Counsel
Sheriff
Chief Executive Office (William T Fujioka, Lari Sheehan)
Fire Department
Internal Services Department
Department of Beaches and Harbors
Department of Parks and Recreation
Department of Public Health
~~Department of Regional Planning~~

WATER CONSERVATION MEASURES BY COUNTY DEPARTMENTS

On August 5, 2008, your Board adopted a Resolution declaring a Countywide Water Supply and Conservation Alert and directing all County departments to evaluate water usage, immediately implement conservation measures to reduce consumption by a target amount of 10 percent by December 31, 2008, and report back to your Board with recommended measures to reduce consumption by an additional 10 percent.

Following is a summary of the multidepartmental effort to accomplish this goal.

Results of Water Conservation Measures Already Implemented

The Department of Public Works (Public Works), the Internal Services Department (ISD), and the Department of Parks and Recreation (DPR) completed their water utility bill analysis for the period of July 1, 2008, through December 31, 2008, to quantify the impact of recent conservation efforts to reduce Countywide water usage. Due to normal billing cycles, the consumption results for the water accounts through December 31, 2008, were not available for reporting until recently. Similar updated reports will continue to be provided to your Board on a regular basis until the current drought ends. Separately, ISD has nearly completed formatting and archiving this data utilizing ISD's Enterprise Energy Management Information System (EEMIS) to track water costs and long-term consumption as is done now for electricity and natural gas. EEMIS will facilitate future tracking and reporting using water bill information from all County departments, allowing departmental facility managers to independently view their historic utility usage and costs at any time.

The County has nearly 1,600 separately metered water accounts from 120 different water purveyors. Public Works, ISD, and DPR receive the water bills for all County facilities. In tracking County water usage during the last half of 2008 representatives of the three departments met regularly to monitor and assess the County's conservation effort. A coordinated process was developed to compare recent water usage for higher volume accounts to the usage during the same period of a baseline year. Fiscal Year 2006-07 was selected as the baseline year for comparison purposes because water usage patterns at that time best represent conditions prior to the current drought.

In order for DPR to have comparable data to evaluate a reduction in water consumption, several facilities were excluded from this reporting period including.

- Park facilities that were under major construction and not operating at normal capacity
- Park facilities with new amenities and improvements that added new water usage after 2006
- New park facilities added to DPR's system after 2006 that were excluded because there was no comparison data.

In an aggressive measure to reduce potable water consumption, DPR has been developing and implementing new water conservation projects and initiatives, which include SMART Irrigation Controllers at 71 parks, waterless urinals, split water metering, and installation of drought-tolerant plant material.

DPR is also in the process of implementing the Phase I Recycled Water Master Plan, which includes providing recycled water to Victoria and Pathfinder Parks and Los Amigos and Alondra Golf Courses within the next year

In summary, water conservation efforts for Public Works, ISD, DPR, and the entire County for the period of July 1, 2008, through December 31, 2008, as compared to the same period in 2006 resulted in the following savings.

	Savings (%)
Department of Public Works	22.2
Internal Services Department	8.9
Department of Parks and Recreation	9.0
Total for County	9.5

Additional Conservation Measures To Achieve Further Reductions

To assist each department in meeting the recommended water demand reduction goals, ISD developed guidelines and conservation measures that were distributed to County facilities managers in September 2008. Attached are the individual behavior modification tips (Attachment A) and facility hardware changes (Attachments B and C) that will, when implemented, be instrumental in further reducing water demands.

Last year, ISD commissioned a water savings study that focused on water use for commercial building heating and cooling systems. Cooling water use constitutes a large portion of the water consumed at these facilities. Substantial water savings can be achieved by replacing older cooling water systems that require a continuous stream of water with newer systems that recirculate the cooling water. Such systems have been installed at the Civic Center Heating and Refrigeration Plant and Peter J. Pitchess Honor Rancho Power Plant, two of the County's largest cooling-water-use facilities, and at Public Works' Alhambra Headquarters. Initial results from testing at these facilities indicate that water savings of approximately 15 percent (30 million gallons) can be achieved annually. Additional systems are scheduled for installation at other selected sites in 2009.

The installation of cooling water recirculation systems currently represents the most economical and effective method to reduce water consumption at County facilities. As a result, ISD has requested \$500,000 in its Fiscal Year 2009-10 Energy Efficiency Projects budget request to install the systems at facilities throughout the County. In the event that the budget request is not approved, ISD plans to provide support to its

customer departments to fund implementation of the systems as part of their routine or extraordinary building maintenance budgets.

At the September 23, 2008, quarterly meeting of Countywide departmental facility managers, representatives from the City of Los Angeles Department of Water and Power and the Metropolitan Water District of Southern California gave presentations on their available water conservation rebate and incentive programs. County facilities may be eligible to receive rebates of 50 to 100 percent of equipment costs for the installation of water-saving devices. Rebate amounts and eligibility vary from area to area, so a check with the water supplier is necessary prior to the start of any modification. Facility managers from various departments have indicated that installations of water-saving devices in their facilities are proceeding

10 EASY TIPS TO REDUCE WATER CONSUMPTION

1. **Shorten your watering cycles.** Up to 70 percent of residential water use goes to maintaining our yards. Taking 1 minute off a 10-minute cycle saves 10 percent!
2. **Check your sprinkler system.** Do a weekly check for broken or clogged sprinkler heads and replace them right away. Make sure you are watering your yard and not the driveway or sidewalk.
3. **Fix those leaks.** Just a drip can waste more than 10,000 gallons per month. A leaking flapper on a toilet also increases flows at the water treatment plant.
4. **Plant native species or drought-tolerant plants.** Many of the lawns and plants we use are not intended for the unique climate in Southern California.
5. **Use a broom instead of a hose.** Sweeping up rather than hosing off leaves or grass clippings not only saves water, it reduces runoff.
6. **Get an adjustable hose nozzle for outdoor use.** With one of these you can adjust the spray to meet your needs. A hose running for 5 minutes uses the same amount of water as a 20-minute shower
7. **Eliminate runoff.** Runoff could mean your lawn needs aeration. When you aerate your lawn, you give the water somewhere to go besides down the storm drain.
8. **Take shorter showers.** Cutting 2 minutes off your shower time can save 600 gallons a month for a family of 4. If you change the showerhead to a water-efficient model, you could save even more
9. **Turn off the water** while you brush your teeth or shave.
10. **Wash only full loads of laundry or dishes.** Waiting until you have a full load can save you up to 20 gallons for the same amount of clean clothes.

Internal Services Department Water Conservation Measures

Internal Services Department (ISD) provides in-house, contracted, and advisory services in the areas of alterations and improvements, facilities maintenance and operations, energy management, and custodial and grounds maintenance services. ISD operates building systems and provides maintenance and repair services to over 200 County facilities consisting of approximately 21,000,000 square feet.

Current Water Conservation Measures – The measures listed below are standard procedures currently used by ISD to ensure water conservation

- Monitor and maintain flush valves on existing toilets and urinals – Maintaining flush valves on a routine basis ensures that leaks are discovered quickly, thus reducing the amount of water wasted and ensure all valves operate properly
- Maintain aerators and flow restrictors on faucets – Repair or replacement of aerators and flow restrictors control the stream of water to prevent splashing and limit the amount of water used during hand washing.
- Monitor pumps and seals for leaks – Various types of pumps are used to provide domestic water to all plumbing fixtures and are used to circulate comfort heating and cooling water used for air conditioning. With proper maintenance, energy costs are reduced and leaks are repaired preventing wasted water and possible building damage.
- Service cooling towers to maintain maximum efficiency and float levels to prevent overflow – Cooling towers use water to transfer building heat to the atmosphere to maintain a comfortable environment of a building. They work similar to a car radiator
- Check water make-up meters on closed loop chilled and hot water systems for excessive water use – Make-up meters are used to measure the amount of water lost during equipment operation. Measuring the amount of water consumed can reveal hidden water leaks or equipment failure.

Current Water Conservation Measures Continued

- Regular irrigation checks – Inspect irrigation system to ensure time clocks, control valves, and sprinkler heads are functioning properly for correct time of day and length of watering cycles for type of plants installed.
- Retro-commissioning buildings to provide more efficient air conditioning systems – Retro-commissioning is a systematic, documented process that identifies low-cost operational and maintenance improvements in existing buildings and brings the buildings systems that use heated and chilled water to optimal performance. Retro-commissioning typically focuses on energy-using equipment and optimizes existing system performance, rather than relying on major equipment replacement. It typically results in improved indoor air quality, comfort, controls, energy efficiency, and water conservation
- Continually monitor water bills – Check for unusual spikes in water consumption indicating possible leaks or problems. Coordinate with County departments to promote ways to conserve water and detect water leaks or excessive water consumption.
- Installing new water-saving devices – Installing waterless and low-flow fixtures when replacing existing fixtures significantly reduces the amount of water used.
- Landscape with drought-tolerant plants and vegetation – The installation of drought-tolerant plants at County facilities is used when replacement of plants is required
- Replace faucets with touch-less type when existing cannot be repaired – Touch-less type faucets limit the amount of water per use
- Install touch-less faucets and water-less urinals in all remodel projects.

Proposed Conservation Measures – Items proposed for future improvements in conservation measures.

- Investigate power plant modifications for use of recycled water in make-up water
– Make-up water is used to cool the power plant's equipment.
- Partner with Public Works Wastewater Division and Sanitation Districts to develop a "retro-commissioning" program for water and wastewater systems.
- Complete Leadership in Energy and Environmental Design Existing Building (LEED EB) studies, which include water conservation measures.
- Upgrade urinals and toilets – Replace flush-type urinals with low-flow or waterless and replace high-consumption toilets with low-flow. By converting urinals to waterless and all toilets to low-flow in the Hall of Administration, the County will save approximately 378,840 gallons of water per month or more than 4.5 million gallons per year

WATER USE – SLOWING THE FLOW

Most everyone who lives and works in Southern California is aware that we are having a dry spell again. California's extensive water supply infrastructure is designed to mitigate the effect of short-term dry periods for most water users. However, this year, California and the southwest is experiencing a supply shortage.

No one knows when this current drought will end. However, historically, droughts exceeding three years are relatively rare in Northern California, the source of much of the State's developed water supply.

Now, since the Governor has proclaimed a Statewide drought and the Los Angeles County Board of Supervisors has declared a Countywide Water Supply and Conservation alert, all County departments must pull together to reduce demands on our water reserves. The Board has directed each department to immediately implement conservation measures to reduce consumption by 10 percent by December 31, 2008, and recommend measures to reduce consumption by an additional 10 percent.

Since the first 10 percent reduction needs to take place this year, all departments must be proactive in their conservation efforts.

The following is a list of conservation measures each department can implement to initiate water savings at County facilities that will help in reaching the requested 20 percent savings target.

No Cost/Low Cost. Each department needs to educate staff to reduce water usage at facilities through an awareness campaign urging that, individually, we all can make a difference. Hardware changes such as low-flow shower heads and faucets, coupled with responsible-use habits, will lead to effective conservation and real water savings. Additionally, we can --

- Check facility for leaks and repair
- Encourage employees to conserve and to report water waste.
- Instruct landscape maintenance staff to reduce water use by repairing leaks, adjusting or replacing sprinkler heads to minimize overspray, adjust the sprinkler timer seasonally or replace timer with a smart controller
- Eliminate hosing down of walkways and driveways
- Retrofit restrooms with self-closing faucets.
- Install water-saving faucet aerators in all restrooms.

Low-flow faucets. A standard lavatory sink faucet has a flow rate of 2.5-5 gallons per minute (gpm). Redesigned low-flow faucets have reduced this flow rate to 1.5-2.5 gpm while maintaining an adequate flow rate for hand washing. The design of the aerator installed in the outlet has made the faucets so successful. These aerators mix air into the water as it leaves the faucet, reducing both the flow and the amount of splashing, while increasing wetting efficiency

Savings.	40 percent
Cost:	Less than \$50/unit

Low-flow shower heads. These fixtures, similar to low-flow toilets, had to go through several design generations before they produced acceptable performance. Today's generation of low-flow showerheads have reduced flow rates, from as high as 7.5 gpm to less than 2.5 gpm. Since the units reduce the flow of hot water, they generate additional energy savings in water heating.

Savings:	50 percent or more
Cost:	Less than \$100/unit

Low-flow urinals. Urinals, like toilets, use large amounts of water. Before the advent of low-flow models, many urinals required 2-3 gallons of water per flush. Today's low-flow models all require less than 1 gallon per flush. Although designing a low-flow urinal did not present the same problems that manufacturers experienced with low-flow toilets, design changes were required in order to develop a unit that performed successfully. When coupled with a touchless, automatic control valve, water savings produced by low-flow urinals is even greater.

Savings.	50 to 70 percent
Cost:	Less than \$500/unit

Low-flow toilets. Toilets are the single largest users of water in many facilities. One flush of each standard toilet uses 3.5-5.5 gallons of water. By contrast, today's low-flow units require 1.5 gallons per flush.

Early generation units were plagued with operation and maintenance problems, giving low-flow units a bad reputation. Today's units have been completely reengineered for operation under low-flow conditions. Redesigned water inlets, traps, and directing jets eliminate the need to flush twice, a common complaint concerning the operation of early low-flow models.

Savings.	60 to 70 percent
Cost:	\$1,500/unit

Touchless controls. Touchless controls for restroom faucets have been widely promoted as a means of improving hygiene in restrooms. An infrared sensor

detects a user's hands under the faucet and turns on the water. Removing the hands turns off the water flow. Unlike timed and other automatic controls, touchless controls limit water flow. They also promote water conservation for toilets and urinals. By automatically flushing the units after use, automatic controls prevent users from overflushing.

Savings: 50 percent or more
Cost: \$1,755/unit

Waterless urinals. The newest addition to water-conserving devices is the waterless urinal. Applicable to both new construction and retrofits, the units operate without water or a flush valve. To form a barrier that prevents odors from entering the restroom, the urinals use an internal trap filled with a liquid that is lighter than urine. In a typical application, this urinal can save up to 44,000 gallons of water annually

Savings: 100 percent
Cost: \$2,580/unit

Point-of-use water heaters. Traditional building designs rely on a central water-heating system. A centrally located boiler generates hot water, which is distributed through insulated piping. Larger buildings use circulation pumps and large central storage tanks to improve system performance.

Systems designed to generate hot water at the point of use employ multiple, smaller water heaters located throughout a facility. Generating hot water at the point of use reduces distribution losses and, just as importantly, water requirements. When hot water is generated in a central system, even in circulating systems, water must be run for a few seconds before hot water is available to the user. Point-of-use water heaters eliminate this waste of water.

Savings: 50 percent or more
Cost: Greater than \$2,500/unit

Mechanical systems. One area that managers too often overlook when implementing a water-conservation program is a building's mechanical systems. Building boilers and cooling towers have significant requirements for water use that managers must consider

Both boilers and cooling towers use automatic valves to maintain water levels to keep contaminants within acceptable concentrations and to make up for water lost from the system. Controls that operate properly minimize water use, but control valves that stick or otherwise fail to operate properly use large volumes of water in a very short period of time. Balancing water quality saves water and energy, optimizes the use of water-treatment chemicals, reduces air and

wastewater emissions, and extends equipment life. Rebates up to \$3,000 are available for installing cooling tower pH controllers.

Managers must ensure that technicians inspect all water-using mechanical systems daily to ensure their proper operation.

Savings.	Up to 40 percent or as much as 800,000 gallons
Cost:	ISD estimates available

Maintenance issues

While water-conserving devices are low-maintenance items, they cannot simply be installed and forgotten. Technicians should check all units regularly and make periodic adjustments to flow-control devices.

Automatic flow controls require battery replacement every one to two years because dirt and contaminants in the water system can easily clog the small openings in flow-control devices.

Managers need to establish a schedule for inspecting and testing all water-conserving devices. By setting up the program as the devices are installed, managers can ensure that the program will achieve its greatest potential.

Utility Incentives and Other Support

When evaluating the potential for water savings in any facility, remember that financial assistance or incentives are available from many utilities to encourage customer conservation. Attached are lists of the current cash rebates available for installing water saving technologies from the Los Angeles Department of Water and Power (LADWP) and the Metropolitan Water District of Southern California (MWD). Although there are usually labor costs for installation, faucet aerators and low-flow shower heads are available free from many water suppliers.

Saving water is more important than ever, and ISD wants to help the County in reaching its goal of 15 to 20 percent reduction in overall water demand. Should your department have any questions regarding any of the conservation measures mentioned, assistance evaluating incentive availability or help with installation, please contact ISD's Facilities Operations Service at (323) 267-2105. Also, go to green.lacounty.gov, LA County's Energy and Environmental website for information on energy and water-efficiency policies and programs.

ISD will be monitoring County water usage and will report to the Board later this year on the savings achieved. Included in this report will be the steps being taken to reach the long-term goal of 15 percent to 20 percent reduction in water demand.

This drought will impact all of us so it is vitally important that we work together to minimize its impacts.